CONTENTS

NUMBER 1, JANUARY, 1989

1 BREATHING PATTERN IN ASTHMA
Martin J. Tobin, Karl Yang, Dona Upson, Houston

2 RESPIRATORY DISEASES FROM HARD METAL OR COBALT EXPOSURE; SOLVING THE ENIGMA
Maurits Demedts, Jan L. Ceuppens, Leuven, Belgium

3 BRONCHOALVEOLAR LAVAGE LIPIDS IN IDIOPATHIC PULMONARY FIBROSIS
Robert B. Low, Burlington, Vermont

6 EFFECT OF ALTERING HEART RATE ON OXYGEN UPTAKE AT EXERCISE ONSET
Richard Casaburi; Shimon Spitzer; Richard Haskell; Karlman Wasserman, Torrance

13 CORRELATES OF ARTERIAL OXYGENATION DURING EXERCISE IN SEVERE CHRONIC OBSTRUCTIVE PULMONARY DISEASE
Anthony D. D'Urzo; Jason Mateika; Douglas T. Bradley; Dominic Li; Monica A. Contreras; Roger S. Goldstein, Toronto, Canada

18 PULMONARY FUNCTION IN LONG-TERM SURVIVORS OF THORACOPLASTY
Charles P. Bredin, Cork, Ireland

21 EXPIRATORY MECHANICS BEFORE AND AFTER UNCOMPLICATED HEART SURGERY
Walter A. Zin; Marina P. R. Caldeira; Wellington V. Cardoso; Jose O. C. Auler, Jr; Paulo H. N. Saldiva, Sao Paulo and Rio de Janeiro, Brazil

29 OCCUPATIONAL ASTHMA FROM COBALT SENSITIVITY IN WORKERS EXPOSED TO HARD METAL DUST
Taro Shirakawa; Yukinori Kusaka; Naoki Fujimura; Shigeru Goto; Mikio Kato; Shinichiro Heki; Kanehisa Morimoto, Osaka, Japan

38 FACTORS DETERMINING IN-HOSPITAL OR LATE SURVIVAL AFTER AORTIC VALVE REPLACEMENT
Lorenzo Gonzalez-Lavin; Julie Gonzalez-Lavin; Lynn B. McGrath; Saeid Amini; Debra Graf, Browns Mills, New Jersey

43 CARTEOLOL, AN ANTIHYPERTENSIVE BETA-BLOCKER WITH INTRINSIC SYMPATHOMIMETIC ACTIVITY, REDUCES ECG EVIDENCE OF LEFT VENTRICULAR HYPERTROPHY
Oscar R. Rosales; Gary E. Sander; Louise Roffidal; Michael B. Given; Thomas D. Giles, New Orleans

48 IMPROVED USE OF ARTERIAL BLOOD GAS ANALYSIS IN SUSPECTED PULMONARY EMBOLISM
Oliver Cvitanic, Paul L. Marino, Philadelphia

52 THE DISCRIMINATORY VALUE OF THE $P(A\text{-}a)O_2$ DURING EXERCISE IN THE DETECTION OF ASBESTOSIS IN ASBESTOS EXPOSED WORKERS
Dorsett D. Smith, Seattle; P. G. Agostoni, Milan, Italy

56 HYPERMAGNESEMIA; A POTENTIAL COMPLICATION DURING TREATMENT OF THEOPHYLLINE INTOXICATION WITH ORAL ACTIVATED CHARCOAL AND MAGNESIUM-CONTAINING CATHARTICS
Charles A. Weber, Rafael M. Santiago, Lackland AFB, Texas

60 SLEEP QUALITY AND PULMONARY FUNCTION IN THE HEALTHY ELDERLY
Barbara Phillips; David Berry; Frederick Schmitt; Rajesh Patel; Yvette Cook, Lexington, Kentucky

65 EFFECT OF BRONCHIAL CHALLENGE ON BREATHING PATTERNS AND ARTERIAL OXYGENATION IN STABLE ASTHMA
I. Casey Stewart; Ann Parker; James R. Catterall; Neil J. Douglas; David C. Flenley, Edinburgh, Scotland

71 THROMBOSIS: THE MAJOR HICKMAN CATHETER COMPLICATION IN PATIENTS WITH SOLID TUMOR
Anita Johnston Anderson; Steven H. Krasnow; Marjorie W. Boyer; D. Joshua Cutler; Beverly D. Jones; Marc L. Citron; Louis G. Ortega; Martin H. Cohen, Washington, D.C.

76 THE MVV/FEV_1 RATIO IN NORMAL AND ASTHMATIC SUBJECTS
Ronald D. Fairshter; Albert Carilli; Aida Soriano; Jason Lin; Usha Pai

82 CHANGES IN PHOSPHATIDYLGLYCEROL IN BRONCHOALVEOLAR LAVAGE FLUIDS FROM PATIENTS WITH CRYPTOGENIC FIBROSING ALVEOLITIS
David A. Hughes, Patricia L. Haslam, London, England

90 RESPIRATORY MUSCLE PERFORMANCE IN NORMAL ELDERLY SUBJECTS AND PATIENTS WITH COPD
Nancy J. Morrison; Judy Richardson; Lindsay Dunn; Richard L. Pardy, Vancouver, Canada

95 NEGATIVE PRESSURE VENTILATION; EFFECTS ON VENTILATION DURING SLEEP IN NORMAL SUBJECTS
Robert D. Levy; T. Douglas Bradley; Stephen L. Newman; Peter T. Macklem; James G. Martin, Montreal, Canada

100 INVESTIGATION ON THE PROTECTIVE VALUE OF BREATHING MASKS IN FARMER'S LUNG USING AN INHALATION PROVOCATION TEST
Dietrich Müller-Wening, Horst Repp, Zusmarshausen, West Germany

106 DIFFERENCES IN LEFT VENTRICULAR ADAPTATION TO CHRONIC MITRAL AND AORTIC REGURGITATION
Obi Nwasokwa; Adrienne Camesas; Ira Weg; Monty M. Bodenheimer, New Hyde Park, New York

111 EFFECT OF MENSES, ESTROGENS AND HEMOLYSIS ON A SERUM-LECTIN-LIKE FACTOR IN CYSTIC FIBROSIS
Jack Lieberman, K. H. Tachiki, Los Angeles

117 DIFFERENCES IN PLETHYSMOGRAPH LUNG VOLUMES; EFFECTS OF LINKED VS UNLINKED SPIROMETRY
James H. Williams, Jr; Harold Z. Bencowitz, Irvine and San Diego

124 UTILITY OF ECHOCARDIOGRAPHY IN THE DIAGNOSIS OF AORTIC DISSECTION INVOLVING THE ASCENDING AORTA
Francesco Enia; Giuseppe Ledda; Renato Lo Mauro; Concetta Matassa; Giacinto Raspanti; Amerigo Stabile, Palermo, Italy

130 PULMONARY INFILTRATES IN IMMUNOCOMPROMISED PATIENTS; DIAGNOSTIC VALUE OF TELESCOPING PLUGGED CATHETER AND BRONCHOALVEOLAR LAVAGE
Antoni Xaubet; Antoni Torres; Francesc Marco; Jordi Puig-De la Bellacasa; Ramon Faus; Albert Agusti-Vidal, Barcelona, Spain

136 DIAGNOSIS OF *PNEUMOCYSTIS CARINII* PNEUMONIA BY INDUCED SPUTUM IN A CITY WITH MODERATE INCIDENCE OF AIDS
Richard F. O'Brien; Janet L. Quinn; Ben T. Miyahara; Ronald B. Lepoff; David L. Cohn, Denver

139 EXERCISE TESTING IN WOMEN WITH CHEST PAIN; ARE THERE ADDITIONAL EXERCISE CHARACTERISTICS THAT PREDICT TRUE POSITIVE TEST RESULTS?
Craig M. Pratt; Marilyn J. Francis; George W. Divine; James B. Young, Bethesda

145 POTT'S DISEASE; A RESURGENT CHALLENGE TO THE THORACIC SURGEON
Bassam Omari; John M. Robertson; Ronald J. Nelson; Lee C. Chiu, Torrance

151 MULTICENTRICITY OF ADENOCARCINOMA OF THE LUNG
Gerald McElvaney; Roberta R. Miller; Nestor L. Muller; Bill Nelems; Kenneth G. Evans; David N. Ostrow, Vancouver, Canada

155 PATTERNS AND ROUTES OF TRACHEOBRONCHIAL COLONIZATION IN MECHANICALLY VENTILATED PATIENTS; THE ROLE OF NUTRITIONAL STATUS IN COLONIZATION OF THE LOWER AIRWAY BY PSEUDOMONAS SPECIES
Michael S. Niederman; Raymond Mantovani; Paul Schoch; Jean Papas; Alan M. Fein, Stony Brook, New York

162 UNSUSPECTED HEMODYNAMIC ALTERATIONS DURING ENDOTRACHEAL SUCTIONING
John M. Walsh; Charles Vanderwarf; Donna Hoscheit; Patrick J. Fahey, Maywood, Illinois

166 MAGNETIC RESONANCE FOR EVALUATION OF THE THORAX
Madeleine R. Fisher, Los Angeles

174 HEALTH CARE FINANCING POLICY FOR HOSPITALIZED PULMONARY MEDICINE PATIENTS
Eric Muñoz; Lionel Barrau; Jonathan Goldstein; Teresa Benacquista; Katherine Mulloy; Leslie Wise, Stony Brook, New York

179 RAPIDLY PROGRESSIVE PNEUMONIA IN A PATIENT WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE
Lucy B. Palmer, Mark J. Schiff, New York

181 ALPHA,-ANTITRYPSIN DEFICIENCY: LESSONS LEARNED FROM THE BEDSIDE TO THE GENE AND BACK AGAIN; HISTORIC PERSPECTIVES
Sten Eriksson, Malmo, Sweden

190 PATHOGENESIS OF EMPHYSEMA: ASSESSMENT OF BASIC SCIENCE CONCEPTS THROUGH CLINICAL INVESTIGATION
Mark Wewers, Columbus, Ohio

196 THE ALPHA,-ANTITRYPSIN GENE AND ITS MUTATIONS; CLINICAL CONSEQUENCES AND STRATEGIES FOR THERAPY
Ronald G. Crystal; Mark L. Brantly; Richard C. Hubbard; David T. Curiel; David J. States; Mark D. Holmes, Bethesda

209 COMPARISON OF RESPIRATORY EFFECTS OF TWO CARDIOSELECTIVE BETA-BLOCKERS, CELIPROLOL AND ATENOLOL, IN ASTHMATICS WITH MILD TO MODERATE HYPERTENSION
Althea I. van Zyl; Angela A. Jennings; Eric D. Bateman; Lionel H. Opie, Observatory, South Africa

214 THE SAFETY FACTOR FOR ELECTROVENTILATION MEASURED BY PRODUCTION OF CARDIAC ECTOPY IN THE ANESTHETIZED DOG
Christine E. Riscili; Marvin Hinds; William D. Voorhees III; Joe D. Bourland; Leslie A. Geddes, West Lafayette, Indiana

218 THE EVOLVING ROLE OF EXERCISE TESTING PRIOR TO LUNG RESECTION
Gerald N. Olsen, Columbia, Missouri

226 BRONCHOALVEOLAR LAVAGE PLASMACYTOSIS IN A PATIENT WITH A PLASMA CELL DYSCRASIA
Phillip Menashe; William Stenson; Gustavo Reynoso; Margaret Keane; Kesav G. Nair; George Nelson, Norwalk, Connecticut

228 $CD8^+$ CELL-DOMINANT ALVEOLITIS IN PULMONARY SARCOIDOSIS
Etsuro Yamaguchi; Hitoshi Haneda; Nozomu Okazaki; Shosaku Abe; Yoshikazu Kawakami; Takayuki Nojima, Sapporo, Japan

231 COLOR DOPPLER FEATURES OF LEFT VENTRICULAR PSEUDOANEURYSM
Mohsin Alam; Howard S. Rosman; Joseph W. Lewis; James F. Brymer, Detroit

232 PULMONARY ARTERY THROMBUS DETECTION BY MAGNETIC RESONANCE IMAGING
Richard A. Szucs; Roger B. Rehr; James L. Tatum, Richmond, Virginia

234 SEVERE PULMONARY HYPERTENSION WITH DIFFUSE SMOOTH MUSCLE PROLIFERATION OF THE LUNGS; PULMONARY TUBEROUS SCLEROSIS?
Osvaldo E. Wagener; Aquiles J. Roncoroni; Juan A. Barcat, Buenos Aires, Argentina

237 PULMONARY NODULE MIMICKED BY ECG LEAD ARTIFACT
Tony Kim; Richard N. Messersmith; Heber MacMahon, Chicago

238 PULMONARY ZYGOMYCOSIS; A CAUSE OF POSITIVE LUNG SCAN DIAGNOSED BY BRONCHOALVEOLAR LAVAGE
John Rozich; Darlene Oxendine; John Heffner; Walter Brzezinski, Charleston, South Carolina

240 LATE DISSEMINATION OF PULMONARY BLASTO-

MYCOSIS DURING KETOCONAZOLE THERAPY
Cullen A. Hebert; John W. King; Ronald B. George, Shreveport
242 UNUSUAL RIB DESTRUCTION IN PLEUROPULMONARY TUBERCULOSIS
Mary Ip; Kai-Kwai Chen; Shun-Yang So; Shui-Wah Chiu; Wah-Kit Lam, Hong Kong
244 BILATERAL RUPTURE OF DIAPHRAGM WITH DELAYED STRANGULATION
Gopal Rao, Henry R. Madoff, Pittsburgh
245 SOLITARY BRONCHIAL MUCOSAL NEUROMA
Hiroyuki Miura; Harubumi Kato; Yoshihiro Hayata; Yoshihiro Ebihara; Tokyo, Japan; Ugur Gönüllü, Ankara, Turkey
247 COARCTATION RESTENOSIS AFTER ISTHMO-SUBCLAVIOPLASTY; A CONSIDERATION ON OPERATIVE PROCEDURE AND INTRALUMINAL BALLOON ANGIOPLASTY
Sugato Nawa; Yorikazu Nakayama; Shigeru Teramoto; Kazuhiro Mori; Tsuguaki Dohi, Okayama, Japan
251 SUDDEN DEATH AND PACEMAKERS
Howard S. Friedman, Brooklyn
Response—Saroja Bharati, Palos Heights, IL
251 CLINICAL PREDICTORS OF MALIGNANCY
Javier de Gracia; Carlos Bravo; Ramon Orriols; Rafael Vidal; Gabriel Sampol; Fernando Morell, Vall d'Hebron, Spain
Response—Robert H. Poe, Rochester, New York
252 ERRATUM
Carl J. Lavie, Rochester, Minnesota
252 MINIMAL PEEP MAY BE "BEST PEEP"
Harakh V. Dedhia; Franklin Schiebel; Luis Teba, Morgantown
Response—Gilbert C. Carroll; Kenneth J. Tuman; Berton Braverman; William G. Logas; Normal Wool; Marshall Goldin; Anthony D. Ivankovich, Chicago
253 PERFUSION SCAN DEFECTS
Benjamin Kanter, San Diego
Response—Kenneth A. Berkowitz, Robert L. Smith, New York
254 PULMONARY ARTERY CATHETERS; THE CONTROVERSY CONTINUES
David Shander, Denver; Mark D. Altschule, Boston
254 ADVERSE EFFECTS OF AMIODARONE AT LOW DOSES
Valeriano Foresti; Elena Parisio; Roberto Pepe; Nadia Scolari; Antonio Villa, Milan, Italy
Response—Peter R. Kowey; Ted D. Friehling; Roger A. Marinchak, Philadelphia
255 CIGARETTES AND CAFFEINE
Darcy Roberto Lima; Geraldo de Noronha Andrade; Roseane Maia Santos; Cid Nascimento David, Rio de Janeiro, Brazil

NUMBER 2, FEBRUARY, 1989

257 INTERPRETATION OF THE SERUM MAGNESIUM LEVEL
Gary P. Zaloga, Winston-Salem
258 INTRAVENOUS DIPYRIDAMOLE INFUSION CAUSES SEVERE BRONCHOSPASM IN ASTHMATIC PATIENTS
Kim A. Eagle; Charles A. Boucher, Boston
259 BRONCHOSCOPY IN *CHEST*
Udaya B. S. Prakash, Rochester, Minnesota
260 WITHHOLDING LIFE SUPPORT; AN ETHICAL GUIDE FOR THE PERPLEXED
Alfred Soffer, Park Ridge
261 EVALUATION OF CONVENTIONAL CIRCULATORY ASSIST DEVICES; INTRAAORTIC BALLOON PUMPING, VENOARTERIAL BYPASS, AND EXTRACORPOREAL MEMBRANE OXYGENATION
Sugato Nawa; Makoto Yamada; Shigeru Teramoto, Okayama, Japan
267 SUBMAXIMAL INVASIVE EXERCISE TESTING AND QUANTITATIVE LUNG SCANNING IN THE EVALUATION FOR TOLERANCE OF LUNG RESECTION
Gerald N. Olsen; Darryl S. Weiman; J. W. Randolph Bolton; G. David Gass; W. Campbell McLain; George A. Schoonover; Carlton A. Hornung, Columbia, South Carolina
274 NOCTURNAL OXYGEN THERAPY DOES NOT IMPROVE SNORERS' INTELLIGENCE
A. Jay Block; Don W. Hellard; Daniel A. Switzer, Gainesville, Florida
279 INTRACRANIAL PRESSURE AND OBSTRUCTIVE SLEEP APNEA
Poul Jennum; Svend Erik Børgesen, Glostrup and Copenhagen, Denmark
284 ACUTE INFERIOR VENA CAVA THROMBOSIS, EARLY RESULTS OF HEPARIN THERAPY
Philippe Girard; Marie-Pierre Hauuy; Dominique Musset; Gérald Simonneau; Patrick Petitpretz, Clamart, France
292 ACUTE VENTRICULAR SEPTAL RUPTURE; ANGIOGRAPHIC-MORPHOLOGIC FEATURES AND CLINICAL ASSESSMENT
On Topaz; Stephen M. Mallon; Robert A. Chahine; Rafael F. Sequeira; Robert J. Myerburg, Miami
299 SAFETY AND EFFICACY OF USING HIGH-DOSE TOPICAL AND NEBULIZED ANESTHESIA TO OBTAIN ENDOBRONCHIAL CULTURES
Rolando Berger; John W. McConnell; Barbara Phillips; Timothy L. Overman, Lexington, Kentucky
304 DIAGNOSIS OF PERIPHERAL LUNG CANCER IN CASES OF TUMORS 2 CM OR LESS IN SIZE
Kiyoshi Mori; Nobuo Yanase; Masahiro Kaneko; Ryosuke Ono; Shigeto Ikeda, Tokyo, Japan
309 CLINICAL RELEVANCE OF THE INTERACTION OF THEOPHYLLINE WITH DILTIAZEM OR NIFEDIPINE
Mary Ann Christopher; Eloise Harman; Leslie Hendeles, Gainesville, Florida
314 PREDNISONE PRETREATMENT LEADS TO HISTAMINIC AIRWAY *HYPO*REACTIVITY SOON AFTER RESOLUTION OF THE IMMEDIATE ALLERGIC RESPONSE
Dan R. Steinberg; David I. Bernstein; I. Leonard Bernstein; Christopher G. Murlas, Memphis
320 SURVIVAL TIME OF PATIENTS WITH PLEURAL METASTATIC CARCINOMA PREDICTED BY GLUCOSE AND pH STUDIES
F. Rodriguez-Panadero; J. Lopez-Mejias, Seville, Spain
325 PULMONARY HYPERTENSION DUE TO TOXIC OIL SYNDROME; A CLINICOPATHOLOGIC STUDY
Miguel A. Gómez-Sánchez; María J. Mestre de Juan; Casimiro Gómez-Pajuelo; José I. López; María J. Diaz de Atauri; Francisco J. Martínez-Tello, Madrid, Spain
332 PROSPECTIVE STUDY OF A STANDARDIZED QUESTIONNAIRE TO IMPROVE CLINICAL ESTIMATE OF PULMONARY EMBOLISM
Alessandro Celi; Antonio Palla; Stefano Petruzzelli; Laura Carrozzi; Arnold Jacobson; Giuseppe Cella; Carlo Giuntini; Arthur A. Sasahara, Pisa, Italy
338 TRANSMURAL PRESSURE MEASUREMENTS; IMPORTANCE IN THE ASSESSMENT OF PULMONARY HYPERTENSION IN OBSTRUCTIVE SLEEP APNEAS
Oreste Marrone; Vincenzo Bellia; Giuseppe Ferrara; Franca Milone; Luisa Romano; Adriana Salvaggio; Angela Stallone; Giovanni Bonsignore, Palermo, Italy
344 THE QUALITY OF WELL-BEING IN CYSTIC FIBROSIS
David M. Orenstein; Patricia A. Nixon; Elizabeth A. Ross; Robert M. Kaplan, San Diego
348 UNCONJUGATED PTERIDINES IN BRONCHOALVEOLAR LAVAGE AS INDICATORS OF ALVEOLAR MACROPHAGE ACTIVATION
Jean-Louis Dhondt; Alain Darras; Philippe Mulliez; Jean-Marie Hayte; Jacques Crinquette, Lille, France
352 SINGLE-CHAMBER CARDIAC PACING WITH TWO FORMS OF RESPIRATION-CONTROLLED, RATE-RESPONSIVE PACEMAKER
Chu-Pak Lau; David E. Ward; A. John Camm, London, England
359 STREPTOCOCCAL TONSILLITIS AND ACUTE NONRHEUMATIC MYOPERICARDITIS
Jouko Karjalainen, Helsinki, Finland
364 STEADY-STATE BREATHING PATTERN RESPONSES TO SMALL INSPIRATORY RESISTIVE LOADS IN COPD PATIENTS
J. L. Pourriat; Ch. Lamberto; J. P. Fosse; B. Vasseur; M. Cupa, Paris, France
370 LEFT VENTRICULAR DYSFUNCTION IN SYMPTOMATIC MITRAL VALVE PROLAPSE
Gerald W. Dorn II; Allen S. Gertler; Leonie Gordon; Bruce W. Usher; Grady H. Hendrix, Charleston, South Carolina
374 DIAPHRAGMATIC EXCURSION AFTER PLEURAL SCLEROSIS
Stephen H. Loring; Stephen C. Kurachek; Mary Ellen B. Wohl, Boston
379 SURGICAL TRANSSTERNAL TREATMENT OF BRONCHOPLEURAL FISTULA POSTPNEUMONECTOMY
V. Beltrami, Chieti, Italy
383 THE MECHANISM OF INHIBITION OF ALVEOLAR MACROPHAGES ON AUTOLOGOUS BLOOD NATURAL KILLER CELL ACTIVITY
Minoru Takeuchi; Sonoko Nagai; Takateru Izumi, Kyoto, Japan
388 ACUTE MYOCARDIAL INFARCTION AFTER HEART IRRADIATION IN YOUNG PATIENTS WITH HODGKIN'S DISEASE
Heikki Joensuu, Turku, Finland
391 HYPOMAGNESEMIA IN PATIENTS IN POSTOPERATIVE INTENSIVE CARE
Bart Chernow; Stephan Bamberger; Michael Stoiko; Mary Vadnais; Susan Mills; Vincent Hoellerich; Andrew L. Warshaw, Boston
398 DETERMINANTS OF WEANING AND SURVIVAL AMONG PATIENTS WITH COPD WHO REQUIRE MECHANICAL VENTILATION FOR ACUTE RESPIRATORY FAILURE
Richard Menzies; William Gibbons; Peter Goldberg, Montreal, Canada
406 CONTINUOUS MONITORING OF MIXED VENOUS OXYGEN SATURATION AS AN INDICATOR OF PHARMACOLOGIC INTERVENTION
Erkan Hassan; Jeffery A. Green; Andrew R. Nara; Robert C. Jarvis; Richard J. Kasmer; Robert Pospisil
410 CATHETER BALLOON VALVULOPLASTY TREATMENT OF ADULT PATIENTS WITH MITRAL STENOSIS
Charles R. McKay, Iowa City
414 ROLE OF INHALATION CHALLENGE TESTING IN THE DIAGNOSIS OF ISOCYANATE-INDUCED ASTHMA
Daniel E. Banks; Joachim Sastre; Brian T. Butcher; Erin Ellis; Roy J. Rando; H. William Barkman, Jr; Yehia Y. Hammad; Henry W. Glindmeyer; Hans Weill, New Orleans
424 RESPIRATORY MANAGEMENT AFTER CARDIAC SURGERY
Michael A. Matthay; Jeanine P. Wiener-Kronish, San Francisco
435 A MIDDLE-AGED MAN WITH A RIGHT UPPER LOBE MASS
David Green; Gerard J. Criner; Elliott Siegal, Baltimore
438 BRADYCARDIA-DEPENDENT BUNDLE BRANCH BLOCK DURING MOBITZ I SECOND DEGREE HEART BLOCK
David A. Tate; Ross J. Simpson, Jr; Leonard S. Gettes, Chapel Hill
441 CONTINUOUS TRANSTRACHEAL OXYGEN DELIVERY DURING CARDIOPULMONARY RESUSCITATION; AN ALTERNATIVE METHOD OF VENTILATION IN A CANINE MODEL
Fred K. Branditz; Karl B. Kern; Sammy C. Campbell, Tucson
449 LASER BRONCHOSCOPY: USE OF CO_2 LASER
Stanley M. Shapshay; John F. Beamis, Jr, Burlington, Massachusetts
457 CAVITARY LUNG DISEASE WITH SKIN LESIONS
Jonathan A. Leff; Talmadge E. King, Jr., Denver
459 MASSIVE TRACHEAL NECROSIS COMPLICATING ENDOTRACHEAL INTUBATION
Nancy C. Abbey; Dale E. Green; Michael J. Cicale, Gainesville, Florida
461 A RARE ENDOBRONCHIAL NEURILEMMOMA (SCHWANNOMA)
Richard J. Feldhaus; Charles Anene; Patrick Bogard, Omaha
462 RAPID DEVELOPMENT OF COR PULMONALE FOLLOWING ACUTE TONSILLITIS IN ADULTS
Charles S. Randall; Sidney S. Braman; Richard P. Millman, Providence, Rhode Island
464 BILATERAL EXUDATIVE PLEURAL EFFUSIONS FOLLOWING INTRAVENOUS ETHCHLORVYNOL ADMINISTRATION

K. Scott Miller; Steven A. Sahn, Charleston, South Carolina

466 PULMONARY ALVEOLAR PROTEINOSIS; OCCURRENCE WITH METASTATIC MELANOMA TO LUNG
Vicki Schiller; Denise R. Aberle; Ann Michelle Aberle, Los Angeles

468 PERICARDIAL EFFUSION MIMICKING LEFT ATRIAL THROMBUS AFTER CORONARY BYPASS SURGERY
Giuseppe Steffenino; Giuseppina Ferrero; Bruna Forni; Carla Giustetto; Gianmaria Ottino; Mariarosa Conte, Torino, Italy

470 SUBAORTIC STENOSIS BY SOLITARY RHABDOMYOMA; SUCCESSFUL EXCISION IN AN INFANT FOLLOWING ECHOCARDIOGRAM AND 2D DOPPLER DIAGNOSIS
Ennio De Dominicis; Alessandro Frigiola; Gaetano Thiene; Lorenzo Menicanti; Loredana Bozzola; Giuseppe Finocchi, Padua, Italy

472 EFFECT OF TEMPORARY EXTERNAL STABILIZATION ON VENTILATOR WEANING AFTER STERNAL RESECTION
J. Ali; B. Harding; R. deNiord

474 CHEST TRAUMA AND SUBVALVULAR LEFT VENTRICULAR ANEURYSMS
Raymond V. Matthews; William J. French; John Michael Criley, Los Angeles

476 AIRWAY COMPLICATIONS FROM FREE-BASING COCAINE
Ronald F. Taylor; Gordon R. Bernard, Nashville

478 CALCIFIED RIGHT ATRIAL MYXOMA DEMONSTRATED BY MAGNETIC RESONANCE IMAGING
Albert de Roos; Erik Weijers; Sjoerd van Duinen; Ernst E. van der Wall, Leiden, the Netherlands

479 ACUTE PULMONARY EDEMA ASSOCIATED WITH THE USE OF ORAL RITODRINE FOR PREMATURE LABOR
Rakesh C. Gupta; Steven Foster; Patricia M. Romano; Henry M. Thomas III, New York and White Plains

482 ASSESSING THE WORK OF BREATHING
Daniel H. Simmons, Los Angeles
Response—J. Ferdinand Fiastro, Michael P. Habib, Stuart F. Quan, Tucson

483 THE ROLE OF TRANSTHORACIC NEEDLE BIOPSY
Ralph E. Binder, Bronxville, New York
Response—Kenneth M. Moser, San Diego

484 BIOPSY SAMPLING TECHNIQUES
Ignatius T. M. Kung, Kai Hung Fung, Kowloon, Hong Kong
Response—Ko Pen Wang, Baltimore

485 THE COST OF LAVAGE
Mark J. Schiff, Lucy B. Palmer, Manhasset, New York
Response—Steven C. Springmeyer, Seattle

485 PNEUMOMEDIASTINUM OR AUTO-PEEP?
C. Y. Tse, Hong Kong
Response—Hani Shennib, Montreal, Canada

486 THE NEWEST QUINOLONE ANTIBACTERIAL AGENTS AND THEOPHYLLINE
Yoshihito Niki; Shigenobu Umeki; Hiroshi Kawane; and Rinzo Soejima, Okayama, Japan

NUMBER 2, FEBRUARY, 1989 Supplement

1S INTRODUCTION
James E. Dalen, Tucson; Jack Hirsh, Hamilton, Canada

2S RULES OF EVIDENCE AND CLINICAL RECOMMENDATIONS ON THE USE OF ANTITHROMBOTIC AGENTS
D. L. Sackett, Hamilton, Canada

5S OPTIMAL THERAPEUTIC RANGE FOR ORAL ANTICOAGULANTS
Jack Hirsh; Leon Poller; Daniel Deykin; Mark Levine; and James E. Dalen

12S ASPIRIN AND OTHER PLATELET ACTIVE DRUGS; RELATIONSHIP AMONG DOSE, EFFECTIVENESS, AND SIDE EFFECTS
Jack Hirsh, M.D.; Edwin W. Salzman; Lawrence Harker; Valentin Fuster; James E. Dalen; John A. Cairns; Rory Collins

19S ASSESSMENT OF THE THERAPEUTIC USE OF DIETARY FISH OIL IN ATHEROSCLEROTIC VASCULAR DISEASE AND THROMBOSIS
Scott H. Goodnight; Marc Fisher; Garret A. FitzGerald; Peter H. Levine

26S HEMORRHAGIC COMPLICATIONS OF LONG-TERM ANTICOAGULANT THERAPY
Mark N. Levine; Gary Raskob; Jack Hirsh

37S ANTITHROMBOTIC THERAPY FOR VENOUS THROMBOEMBOLIC DISEASE
Thomas M. Hyers; Russell D. Hull; John G. Weg

52S ANTITHROMBOTIC AGENTS IN CORONARY ARTERY DISEASE
Leon Resnekov; Juan Chediak; Jack Hirsh; H. Daniel Lewis, Jr.

73S CORONARY THROMBOLYSIS
John A. Cairns; Rory Collins; Valentin Fuster; Eugene R. Passamani

88S HEMORRHAGIC COMPLICATIONS OF THROMBOLYTIC THERAPY IN THE TREATMENT OF MYOCARDIAL INFARCTION AND VENOUS THROMBOEMBOLISM
A. G. Fennerty; Mark N. Levine; Jack Hirsh

98S ANTITHROMBOTIC THERAPY IN VALVULAR HEART DISEASE
Herbert J. Levine; Stephen G. Pauker; Edwin W. Salzman

107S ANTITHROMBOTIC THERAPY IN MECHANICAL AND BIOLOGICAL PROSTHETIC HEART VALVES AND SAPHENOUS VEIN BYPASS GRAFTS
Paul D. Stein, Adrian Kantrowitz

118S ANTITHROMBOTIC THERAPY IN ATRIAL FIBRILLATION
Marvin I. Dunn; James K. Alexander; Regis de Silva; Frank Hildner

128S ANTITHROMBOTIC THERAPY IN PERIPHERAL VASCULAR DISEASE
G. Patrick Clagett; Edward Genton; Edwin W. Salzman

140S ANTITHROMBOTIC THERAPY FOR CEREBROVASCULAR DISORDERS
David G. Sherman; Mark L. Dyken; Marc Fisher; M. J. G. Harrison; Robert G. Hart

156S USE OF ANTICOAGULANTS DURING PREGNANCY
Jeffrey S. Ginsberg, Jack Hirsh

161S A DECISION ANALYTIC VIEW OF ANTICOAGULANT PROPHYLAXIS FOR THROMBOEMBOLISM IN HEART DISEASE
Stephen G. Pauker; Mark H. Eckman; Herbert J. Levine

NUMBER 3, MARCH, 1989

487 ELECTROVENTILATION; A NEW INTEREST IN AN OLD IDEA
Stephen J. Jay, Indianapolis

489 FLOW-DIRECTED PULMONARY ARTERY CATHETERIZATION; MORATORIUM VS CLINICAL TRIAL
David H. Spodick, Worcester, Massachusetts

490 PATIENT DUMPING; THE PHYSICIAN'S DILEMMA
Christopher Rose, Philadelphia

491 TROPICAL LUNG DISEASE; A NEW DEPARTMENT
Om P. Sharma, Los Angeles

492 PLEURAL AND LUNG CRYOBIOPSIES DURING THORACOSCOPY
Jean-Pierre A. Bonniot; Jean-Paul D. Homasson; Serge L. Roden; Marc L. Angebault; Pierre C. Renault, Paris, France

494 USE OF A RAPID DIFFERENTIAL STAIN FOR IDENTIFYING *PNEUMOCYSTIS CARINII* IN BRONCHOALVEOLAR LAVAGE FLUID; DIAGNOSTIC EFFICACY IN PATIENTS WITH AIDS
David J. Tollerud; Terrence A. Wesseler; C. Kurtis Kim; Robert P. Baughman, Cincinnati

498 UNEXPECTED HIGH PREVALENCE OF SILENT PULMONARY EMBOLISM IN PATIENTS WITH DEEP VENOUS THROMBOSIS
Menno V. Huisman; Harry R. Buller; Jan W. ten Cate; Eric A. van Royen; Johan Vreeken; Maria-José Kersten; Robert Bakx, Amsterdam, the Netherlands

503 CHRONIC THROMBOEMBOLIC OCCLUSION IN THE ADULT CAN MIMIC PULMONARY ARTERY AGENESIS
Kenneth M. Moser; Linda K. Olson; Martin Schlusselberg; Pat O. Daily; Walter P. Dembitsky, San Diego

509 CARDIAC SURGERY FOR CHRONIC RENAL DIALYSIS PATIENTS
Bradford M. Blakeman; Roque Pifarre; Henry J. Sullivan; Alvaro Montoya; Mamdouh Bakhos, Maywood, IL

512 SUBCLINICAL EFFECTS OF CIGARETTE SMOKING
Ronald J. Knudson; Dwyn E. Knudson; Walter T. Kaltenborn; John W. Bloom, Tucson

519 PATIENT AND FAMILY PARTICIPATION IN THE MANAGEMENT OF RESPIRATORY FAILURE IN DUCHENNE'S MUSCULAR DYSTROPHY
Irene Gilgoff; William Prentice; Ahmet Baydur, Los Angeles

525 DOPPLER EVALUATION OF CHANGING CARDIAC DYNAMICS DURING CHEYNE-STOKES RESPIRATION
Seymour S. Maze; Morris N. Kotler; Wayne R. Parry, Philadelphia

530 THE RELATIONSHIP BETWEEN LUNG VOLUME AND STANDARD SCALAR ECG PARAMETERS IN NORMAL SUBJECTS
John D. Parker; John E. Fay; F. James Brennan; Lutz Forkert, Kingston, Canada

535 THRESHOLD PRESSURE TRAINING, BREATHING PATTERN, AND EXERCISE PERFORMANCE IN CHRONIC AIRFLOW OBSTRUCTION
Michael G. Flynn; Colin E. Barter; Jill C. Nosworthy; Jeffrey J. Pretto; Peter D. Rochford; Robert J. Pierce, Victoria, Australia

541 INCREASE IN NUMBER OF MYOCARDIAL ISCHEMIC EPISODES FOLLOWING NIFEDIPINE ADMINISTRATION IN TWO PATIENTS
Gian Carlo Casolo; Enrico Balli; Loredana Poggesi; Gian Franco Gensini, Florence, Italy

544 BRONCHIAL HYPERREACTIVITY AND COUGH DUE TO ANGIOTENSIN-CONVERTING EYZYME INHIBITORS
Jack Kaufman; James E. Casanova; Pamela Rendl; Donald P. Schlueter, Milwaukee

549 RELATIONSHIP BETWEEN NUMBER OF ASBESTOS BODIES IN AUTOPSY LUNG AND PLEURAL PLAQUES ON CHEST X-RAY FILM
Takumi Kishimoto; Tetsuya Ono; Keisei Okada; Hisao Ito, Kure, Japan

553 CHEMILUMINESCENCE AND ANTIBODY-DEPENDENT, CELL-MEDIATED CYTOTOXICITY BETWEEN HUMAN ALVEOLAR MACROPHAGES AND PERIPHERAL BLOOD MONOCYTES IN SMOKERS, NONSMOKERS, AND LUNG CANCER PATIENTS
Ching-Chi Lin; Wen-Chu Huang; Ching-Yuang Lin, Taipei, Taiwan

558 COMPARISON OF PEFR AND FEV, IN PATIENTS WITH VARYING DEGREES OF AIRWAY OBSTRUCTION; EFFECT OF MODEST ALTITUDE
T. Ray Vaughan; Richard W. Weber; W. Ronald Tipton; Harold S. Nelson, Aurora and Denver

563 A RANDOMIZED CONTROLLED TRIAL OF METHYLPREDNISOLONE IN THE EMERGENCY TREATMENT OF ACUTE EXACERBATIONS OF COPD
Charles L. Emerman; Alfred F. Connors; Thomas W. Lukens; Michael E. May; David Effron, Cleveland

568 DEXAMETHASONE AS PROPHYLAXIS FOR ACUTE MOUNTAIN SICKNESS; EFFECT OF DOSE LEVEL
Paul B. Rock; T. Scott Johnson; Richard F. Larsen; Charles S. Fulco; Laurie A. Trad; Allen Cymerman, Natick and Boston

574 PHENOTYPE OF BLOOD MONOCYTES AND ALVEOLAR MACROPHAGES IN INTERSTITIAL LUNG DISEASE
Henk C. Hoogsteden; Jacques J. M. van Dongen; Peter T. W. van Hal; Mik Delahaye; Wim Hop; Chris Hilvering, Rotterdam, the Netherlands

578 CILIARY ULTRASTRUCTURE OF RESPIRATORY AND FALLOPIAN TUBE EPITHELIUM IN A STERILE WOMAN WITH KARTAGENER'S SYNDROME; A QUANTITATIVE ESTIMATION
Miriam Lurie; Ilan Tur-Kaspa; Shoshana Weill; Ido Katz; Jaron Rabinovici; Shulamit Goldenberg, Tel Aviv, Israel

582 EFFECT OF RADIATION THERAPY ON BRONCHIAL OBSTRUCTION DUE TO BRONCHOGENIC CARCINOMA
Kota G. Chetty; Edgar M. Moran; Catherine S. H. Sassoon; Thavinsakdi Viravathana; Richard W. Light,

Irvine
585 PULMONARY MANIFESTATIONS OF BEHCET'S SYNDROME
Itamar Raz; Elimelech Okon; Tova Chajek-Shaul, Jerusalem, Israel
590 IMMUNOCYTOLOGY IN MALIGNANT PLEURAL MESOTHELIOMA; EXPRESSION OF TUMOR MARKERS AND DISTRIBUTION OF LYMPHOCYTE SUBSETS
Josune Guzman; Klaus J. Bross; Gebhard Würtemberger; Ulrich Costabel, Essen-Heidhausen, West Germany
596 PLEURAL T-LYMPHOCYTE SUBJECTS IN AMIODARONE-ASSOCIATED PLEUROPNEUMONITIS
Georges M. Akoun; Bernard J. Milleron; Daniel M. Badaro; Charles M. Mayaud; Huguette A. Liote, Paris, France
598 CHRONIC SIMPLE BRONCHITIS IN PIGEON FANCIERS; RELATIONSHIP OF COUGH WITH EXPECTORATION TO AVIAN EXPOSURE AND PIGEON BREEDERS' DISEASE
Stephen Bourke; Kenneth Anderson; Philip Lynch; Jennifer Boyd; Stephen King; Stephen Banham; Gavin Boyd, Glasgow, Scotland
602 PLEURAL FLUID NEURON-SPECIFIC ENOLASE; A USEFUL DIAGNOSTIC MARKER FOR SMALL CELL LUNG CANCER PLEURISY
Kaoru Shimokata; Yoshioki Niwa; Masashi Yamamoto; Harumi Sasou; Munehiko Morishita, Aichi, Japan
604 A POSSIBLE ASSOCIATION OF RHEUMATOID ARTHRITIS AND SARCOIDOSIS
Richard F. Kucera, Fort Gordon, Georgia
607 CONTINUOUS MONITORING OF MIXED VENOUS OXYGEN SATURATION IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION
Jeffrey V. Kyff; Steven Vaughn; Seung C. Yang; Ramesh Raheja; Vinod K. Puri, Loma Linda, CA
612 INOTROPIC RESPONSE TO DIGOXIN AND DOPAMINE IN PATIENTS WITH SEVERE SEPSIS, CARDIAC FAILURE, AND SYSTEMIC HYPOPERFUSION
Stanley A. Nasraway; Eric C. Rackow; Mark E. Astiz; George Karras; Max Harry Weil, North Chicago, IL
616 ALTERATIONS IN SYMPATHETIC NERVOUS SYSTEM ACTIVITY WITH INTRAOPERATIVE HYPOTHERMIA DURING CORONARY ARTERY BYPASS SURGERY
H. Lester Reed; Bart Chernow; C. Raymond Lake; Gary P. Zaloga; Michael A. Stoiko; David Beardsly; David Cruess; Charles Lee; Robert C. Smallridge
623 INVASIVE HEMODYNAMIC MONITORING IN THE UNITED KINGDOM; ENOUGH OR TOO LITTLE?
Mervyn Singer; E. David Bennett, London, England
627 THE IMPORTANCE OF CYTOMEGALOVIRUS IN HEART-LUNG TRANSPLANT RECIPIENTS
Jonathan A. Hutter; John Scott; Tim Wreghitt; Tim Higenbottam; John Wallwork, Cambridge, England
632 VENTILATION-PERFUSION IMAGING IN EVALUATING REGIONAL LUNG FUNCTION IN NONPENETRATING INJURY
Stephen F. Van Eeden; Johannes F. Klopper; Berholdt Alheit; Phillip G. Bardin, Tygerberg, South Africa
639 *MYCOPLASMA PNEUMONIAE* PNEUMONIA
J. Keith Mansel; Edward C. Rosenow III; Thomas F. Smith; James W. Martin, Jr, Rochester, Minnesota
647 LIFE-SUSTAINING TREATMENT FOR PATIENTS WITH AIDS
Robert M. Wachter; John M. Luce; Bernard Lo; Thomas A. Raffin, San Francisco and Stanford
653 AUTOMATICITY OF THE SN AND A-V JUNCTIONAL TISSUE BEFORE AND AFTER CHEMICAL DENERVATION IN THE DOG
Jyh-Hong Chen; Wen-Pin Lien; Jin-Jer Chen; Fang-Yue Lin; Yu-Zen Yang, Taipei, Taiwan
658 REMOVAL OF BRONCHIAL SECRETIONS BY TWO-PHASE GAS-LIQUID TRANSPORT
Rodney C. Benjamin; Gillette A. Chapman; Cong S. Kim; Marvin A. Sackner, Miami Beach
664 *CHLAMYDIA PNEUMONIAE*, STRAIN TWAR
J. Thomas Grayston, Seattle
670 THE MAN WHO LOVED DRUNKEN CRABS; A CASE OF PULMONARY PARAGONIMIASIS
Om P. Sharma, Los Angeles
673 A ONE-SIDED AFFAIR?
Jan H. Zwaveling; Steven J. M. Gans, Utrecht, the Netherlands
676 MANAGEMENT FOR INTERSTITIAL LUNG DISEASE
Cecelia M. Smith; Kenneth M. Moser, San Diego
679 CPR TRAINING BY COMPUTER; CARDIAC ARREST SIMULATION PROGRAM
Reviewed by Frederick Hanson, San Diego
681 SUPERIMPOSED HIGH FREQUENCY VENTILATION WITH CONVENTIONAL MECHANICAL VENTILATION
Eitan Barzilay; Diego Kessler; Raul Raz, Afula, Israel
682 SUDDEN DEATH AS THE INITIAL MANIFESTATION OF DIFFUSE PLEURAL MESOTHELIOMA
J. T. Lie, Rochester, Minnesota
684 STUMP NEUROMA MASQUERADING AS RECURRENT MALIGNANCY ON CHEST ROENTGENOGRAM
John F. Donnal; Craig L. Coblentz; Colleen J. Bergin, Durham
685 CAPTOPRIL-INDUCED HYPERSENSITIVITY LUNG DISEASE; AN IMMUNE-COMPLEX-MEDIATED PHENOMENON
Phyllis L. Schatz; Dean Mesologites; Jason Hyun; G. J. Walker Smith; Bimalin Lahiri, Hartford
687 POSTOBSTRUCTION PULMONARY EDEMA
Dirk Younker; Carol Meadors; Lewis Coveler, Houston
689 HEAD-UP TILT TABLE EVALUATION IN A TRAINED ATHLETE WITH RECURRENT VASO-VAGAL SYNCOPE
Eldad Rechavia; Boris Strasberg; Jacob Agmon, Tel Aviv, Israel
691 PULMONARY INFILTRATION WITH BLOOD EOSINOPHILIA AFTER SCORPION STING
Prabhat K. D. Shah; Manoj Lakhotia; Murlidhar Chittora; Sanjay Mehta; Ashish Purohit, Jodhpur, India
693 RECURRENT BRONCHIAL CARCINOID TUMOR
Charles Bernstein; James McGoey; Morley Lertzman, Winnipeg, Canada
695 DEPRESSED CENTRAL RESPIRATORY DRIVE CAUSING WEANING FAILURE; ITS REVERSAL WITH DOXAPRAM
Ronald E. Haake; Leslie A. Saxon; Steven J. Bander; Robert J. Haake, St. Louis
697 ENDURANCE EXERCISE IN THE PRESENCE OF HEART DISEASE
Pamela S. Douglas; Alison Sigler; Mary L. O'Toole; W. Douglas B. Hiller, Memphis
700 REMOVAL OF BROKEN FRAGMENT OF BIOPSY FORCEPS WITH MAGNETIC EXTRACTOR
Hiroshi Saito; Hideo Saka; Shuzo Sakai; Kaoru Shimokata, Obu, Japan
701 MANAGEMENT OF LIFE-THREATENING BRADYCARDIA IN SPINAL CORD INJURY
Antoine G. Abd; Norma M. T. Braun, New York
702 ELICITATION OF MYOCARDIAL ISCHEMIA BY NIFEDIPINE IN A CASE OF CORONARY ARTERY FISTULA
Piero Montorsi; Antonio Bartorelli; Francesco Garbagnati, Milan, Italy
705 DRGS FOR THE CRITICALLY ILL
Douglas R. Gracey, Rochester, Minnesota
Roger C. Bone; Robert L. Rosen; Paula Douglass, Chicago
706 HISTORY OF HBO
Claude L. Zanetti, Chicago
706 MYOCARDIAL BRIDGING OF A CORONARY ARTERY—A NOT-SO-BENIGN ANOMALY
Reinaldo B. Bestetti; J. Samuel M. Oliveira, Ribeirao Preto, Brazil
Response—Oscar H. Kracoff, Rehovot, Israel
707 DIAGNOSTIC VALUE OF SERUM TO PLEURAL FLUID ZINC RATIOS IN PLEURAL EFFUSIONS
Kenneth E. Shepherd, Boston
707 LEGIONELLA PNEUMONIA AND AIDS
Azmy A. Allam; Stephan L. Kamholz, Brooklyn
708 BRONCHOALVEOLAR T-LYMPHOCYTOSIS IN HTLV-I-ASSOCIATED MYELOPATHY
Mineharu Sugimoto; Hironori Nakashima; Osamu Kawano; Masayuki Ando; Shukuro Araki, Honjo, Japan
708 BRONCHOSCOPIC ASPECT OF PULMONARY ASPERGILLOMA
H. Verea-Hernando; M. Martin-Egaña; L. Dominguez-Juncal; J. Fontan-Bueso, La Coruña, Spain
709 LEAKING ENDOTRACHEAL TUBE
Eileen Watson; Mark M. Harris, Charlottesville
709 ORAL ETOPOSIDE FOR A 95-YEAR-OLD PATIENT WITH SMALL CELL LUNG CANCER
Egbert F. Smit; Dirk Th. Sleijfer; Pieter E. Postmus, Groningen, The Netherlands
710 PULMONARY FUNCTION TESTS IN AIDS
O. Parra; H. Sala; B. Clotet; J. Ruiz; J. Morera, Barcelona, Spain
710 ERRATUM
Roger C. Bone, Chicago

NUMBER 3, MARCH, 1989 Supplement

171S INTRODUCTION
Thomas A. Neff, Denver
171S THE ANTIBODY RESPONSE TO PRIMARY TUBERCULOUS INFECTION IN MAN
V. Hoeppner, I. Mayers, Saskatoon, Saskatchewan, Canada
172S T-HELPER CELLS AND HOST DEFENSE TO *CRYPTOCOCCUS NEOFORMANS* IN THE LUNG
C. H. Moody; M. F. Lipscomb; G. B. Toews, Dallas
172S DUAL EFFECTS OF INTERFERON-GAMMA ON THE INTERACTION BETWEEN HUMAN ALVEOLAR MACROPHAGES AND *CRYPTOCOCCUS NEOFORMANS*
Susanne Becker, Hillel S. Koren, Chapel Hill
174S ENDOTHELIAL CELLS AND BACTERIAL INFECTION
Una S. Ryan, J. M. Vann, K. B. Nolop, Miami
176S PATHOLOGY OF PULMONARY INFECTIONS; IMMUNE COMPROMISED VS NORMAL HOSTS
Gerald Nash, Worcester
180S HISTOPATHOLOGIC EVALUATION OF PULMONARY INFECTIONS IN LUNG TRANSPLANT PATIENTS
P. T. Cagle; L. D. Troung; V. A. Holland; E. D. Lawrence, S. Donald Greenberg, Houston
180S PATHOGENESIS OF *PNEUMOCYSTIS CARINII* PNEUMONIA; AN *IN VITRO* MODEL
Andrew H. Limper, William J. Martin II, Rochester, Minnesota
181S EXPERIMENTAL LEGIONNAIRES' DISEASE IN A COMPROMISED HOST
Shawn Skerrett, Thomas R. Martin, Seattle
182S CYTOMEGALOVIRUS PNEUMONIA; STATE OF THE ART
Charles B. Smith, Salt Lake City
187S ROLE OF BRONCHOALVEOLAR LAVAGE IN THE DIAGNOSIS OF PNEUMONIA
John A. Rankin, West Haven, Connecticut
190S QUANTIFICATION OF BAL CELLS CONTAINING INTRACELLULAR BACTERIA RAPIDLY IDENTIFIES VENTILATED PATIENTS WITH NOSOCOMIAL PNEUMONIA
J. Chastre; J. Y. Fagon; P. Soler; Y. Domart; J. Pierre; M. C. Dombret; C. Gibert; A. J. Hance, Paris, France
192S MOLECULAR ANALYSIS OF CYTOMEGALOVIRUS-INDUCED ACUTE LUNG INJURY IN ORGAN TRANSPLANT RECIPIENTS
C. Hencke; M. Hertz; L. Snyder; L. Turtinen; K. Harmon; P. Bitterman, Minneapolis
192S PREDICTING A POSITIVE RESULT FOR IMMUNOCOMPROMISED PATIENTS UNDERGOING BAL FOR FEVER AND PULMONARY SYMPTOMS
R. P. Baughman, P. T. Frame, Cincinnati
194S MICROBIAL ETIOLOGY OF PNEUMONIA
Joseph H. Bates, Little Rock
197S ANTIBODY COATING AND QUANTITATIVE CULTURES OF BACTERIA IN THE AIRWAYS OF PATIENTS WITH CHRONIC BRONCHITIS
E. R. Swenson; L. C. Carlson; R. K. Albert, T. R. Martin, Seattle
197S THE BETA-LACTAMASES OF *BRANHAMELLA CATARRHALIS*
Richard J. Wallace; D. Hollis; R. Weaver; V. Steingrube; C. Flanagan; A. Labidi; D. Nash, Atlanta
198S FACTORS AFFECTING THE SENSITIVITY OF NEEDLE ASPIRATION IN A RODENT MODEL OF GRAM-NEGATIVE BACILLARY PNEUMONIA
Gerardo S. San Pedro; G. Douglas Campbell; A. Francine Tryka, Little Rock

200S ENDEMIC MYCOSES; AN UPDATE ON THE CURRENT STATE OF THE ART
George A. Sarosi, Houston
203S CONTRASTING MODELS OF NEUTROPHIL RECRUITMENT TO THE LUNG; PNEUMONIA VS SEPSIS
Gary C. Kindt; James E. Gadek; Jeffrey E. Weiland, Columbus, Ohio
204S *ESCHERICHIA COLI* ENDOTOXIN IS A MAJOR REGULATOR OF PROCOLLAGENASE, GELATINASE, AND STROMELYSIN SECRETION BY HUMAN ALVEOLAR MACROPHAGES
E. Campbell; J. Cury; H. Welgus, St. Louis
206S CHLAMYDIA TWAR STRAIN AMONG OLDER ADULTS WITH ACUTE PNEUMONIA
C. Davis; A. Barron; G. Campbell; G. McCracken; J. Bates, Little Rock
206S PATHOGENETIC MECHANISMS IN LUNG DISEASES CAUSED BY *PSEUDOMONAS AERUGINOSA*
Robert B. Fick, Jr; J. Steven Hata, Iowa City
214S *PSEUDOMONAS AERUGINOSA* PRODUCES LOW MOLECULAR WEIGHT MOLECULES THAT DAMAGE HUMAN RESPIRATORY EPITHELIUM *IN VITRO* AND SLOW MUCOCILIARY TRANSPORT IN THE GUINEA PIG TRACHEA *IN VIVO*
R. Wilson; N. Munro; A. Hastie; A. Rutman; D. Sykes; D. Watson; T. Shryock; G. Taylor; P. Cole
214S CILIOSTATIC FACTORS FROM *PSEUDOMONAS AERUGINOSA*; ACTION ON RESPIRATORY CILIA
Susan T. Hingley; Annette T. Hastie; Friedrich Kueppers; Michael Higgins; George Weinbaum, Philadelphia
215S PATHOPHYSIOLOGIC MECHANISMS IN THE LUNG LESION OF *PSEUDOMONAS AERUGINOSA*
R. B. Fick; S. U. Squier, Iowa City
217S HOST-MICROBIAL INTERRELATIONSHIPS IN RESPIRATORY INFECTION
Peter Cole, Robert Wilson, London, England
221S PNEUMOLYSIN PRODUCED BY *STREPTOCOCCUS PNEUMONIAE* DAMAGES HUMAN RESPIRATORY EPITHELIUM *IN VITRO*
C. Steinford; R. Wilson; A. Rutman; D. Sykes; H. Todd; J. Walker; T. Michell; K. Saunders; P. Andrew; C. B. Boulnois; P. Cole, London and Leicester, England
221S INCREASED SECRETION OF GLYCOCONJUGATES BY INFLUENZA-INFECTED FERRET TRACHEAS
Margaret W. Leigh; Pi-Wan Cheng; Thomas F. Boat, Chapel Hill
223S PULMONARY HOST DEFENSES; STATE OF THE ART
Herbert Y. Reynolds, Hershey, Pennsylvania
230S MECHANISMS OF PLEURAL FIBROSIS IN EMPYEMA
Veena B. Antony; Kimberly J. Hadley; Steven A. Sahn, Charleston, South Carolina
232S ROLE OF RECRUITED NONIMMUNOSPECIFIC DEFENSES IN LEGIONNAIRES' DISEASE
Gerald S. Davis; Washington C. Winn, Jr; John W. Christman, Burlington, Vermont
233S THE ROLE OF TUMOR NECROSIS FACTOR-ALPHA (TNF) IN MULTIPLE ORGAN INJURY
Robert M. Strieter; Daniel G. Remick; Joseph P. Lynch III; Steven L. Kunkel, Ann Arbor
234S CYSTIC FIBROSIS TRACHEOBRONCHIAL EFFLUENT STIMULATES PROLIFERATION OF LUNG FIBROBLASTS *IN VITRO*
Veda L. Ackerman; Kimberly J. Hadley; Howard Eigen; Veena B. Antony, Indianapolis
237S IMMUNOLOGY OF HUMAN TUBERCULOSIS; PERSPECTIVES FOR VACCINE DEVELOPMENT
Jerrold J. Ellner, Cleveland
240S PYROLYSIS MASS SPECTROMETRY CHARACTERIZES MOLECULAR DIFFERENCES IN VARIANTS OF *MYCOBACTERIUM KANSASII*
S. Shoemaker; S. DeLuca; J. Belisle; P. Brennan, Denver and Fort Collins
240S A ROLE FOR COMPLEMENT IN ANTIMYCOBACTERIAL DEFENSES
R. Swartz; C.-W. Vogel; Y. Yeager, Washington, D.C.
241S CONFERENCE SUMMARY
Merle Sande, San Francisco

NUMBER 4, APRIL, 1989

711 IS THE ANATOMIC, DIAGNOSTIC WORK-UP OF CHRONIC COUGH NOT ALL THAT IT IS HACKED UP TO BE?
Richard S. Irwin, Frederick J. Curley, Worcester, Massachusetts
713 PULSE OXIMETRY
Kevin K. Tremper, Irvine, California
715 BRONCHOALVEOLAR LYMPHOCYTES IN SARCOIDOSIS
Milton D. Rossman, Philadelphia
717 AMBULATORY MONITORING OF ARTERIAL OXYGEN SATURATION
Michael J. Decker; Peter L. Hoekje; Kingman P. Strohl, Cleveland
723 CHRONIC PERSISTENT COUGH; EXPERIENCE IN DIAGNOSIS AND OUTCOME USING AN ANATOMIC DIAGNOSTIC PROTOCOL
Robert H. Poe; Ralph V. Harder; Robert H. Israel; Michael C. Kallay, Rochester, New York
729 CRITICAL DOSE OF DIGOXIN FOR TREATING SUPRAVENTRICULAR TACHYCARDIAS AFTER HEART SURGERY
Bernard G. Krohn; John M. Saenz; Ken K. Eto, Los Angeles
735 HEART RATE RESPONSE TO BREATH-HOLD, VALSALVA AND MUELLER MANEUVERS IN OBSTRUCTIVE SLEEP APNEA
Patrick J. Hanly; Charles F. George; Thomas W. Millar; Meir H. Kryger, Winnipeg, Canada
740 ARM EXERCISE TESTING WITH MYOCARDIAL SCINTIGRAPHY IN ASYMPTOMATIC PATIENTS WITH PERIPHERAL VASCULAR DISEASE
Stacey Goodman; Shirley Rubler; Hillel Bryk; Bradley Sklar; Lynne Glasser, New York
747 AEROSOLIZED PENTAMIDINE AS SECOND LINE THERAPY IN PATIENTS WITH AIDS AND *PNEUMOCYSTIS CARINII* PNEUMONIA
A. Bruce Montgomery; Robert J. Debs; John M. Luce; Kevin J. Corkery; Joan Turner; Philip C. Hopewell, San Francisco
751 RELATIONSHIP BETWEEN IMPROVEMENT IN EXERCISE PERFORMANCE WITH SUPPLEMENTAL OXYGEN AND HYPOXIC VENTILATORY DRIVE IN PATIENTS WITH CHRONIC AIRFLOW OBSTRUCTION
Richard W. Light; C. Kees Mahutte; David W. Stansbury; Claudia E. Fischer; Stephen E. Brown, Irvine, California
757 PULMONARY VASCULAR HEMODYNAMICS IN CHRONIC LUNG DISEASE PATIENTS WITH AND WITHOUT OXYHEMOGLOBIN DESATURATION DURING SLEEP
Eugene C. Fletcher; Rita A. Luckett; Trey Miller; Constantino Costarangos; Nicholas Kutka; Joyce G. Fletcher, Houston
765 THE EFFECTS OF NITRAZEPAM AND FLUNITRAZEPAM ON OXYGEN DESATURATION DURING SLEEP IN PATIENTS WITH STABLE HYPOXEMIA NONHYPERCAPNIC COPD
Bengt Midgren; Lennart Hansson; Håvard Skeidsvoll; Dan Elmqvist, Lund, Sweden
769 PROGNOSTIC INDICATORS IN THE INITIAL PRESENTATION OF *PNEUMOCYSTIS CARINII* PNEUMONIA
Stuart M. Garay; Jeffrey Greene, New York
773 PULMONARY VASCULAR RESISTANCE BEFORE AND AFTER CARDIOPULMONARY BYPASS; THE EFFECT OF $PaCO_2$
Anne Viitanen; Markku Salmenpera; Jussi Heinonen; Markku Hynynen, Helsinki, Finland
779 CARDIAC FUNCTION AT REST AND WITH EXERCISE IN THE CHRONIC FATIGUE SYNDROME
Terrence J. Montague; Thomas J. Marrie; Gerald A. Klassen; David J. Bewick; B. Milan Horacek, Halifax, Canada
785 CLINICAL EXPERIENCE WITH FULGURATION AND ANTIARRHYTHMIC THERAPY FOR THE TREATMENT OF VENTRICULAR TACHYCARDIA; LONG-TERM FOLLOW-UP OF 43 PATIENTS
Guy Fontaine; J. L. Tonet; R. Frank; I. Rougier, Ivry, France
798 TREATMENT OF CONGESTIVE HEART FAILURE; EFFECT ON PLEURAL FLUID CHEMISTRY
Simon C. Chakko; Stephen H. Caldwell; Peter P. Sforza, Salem and Charlottesville, Virginia
803 ELEVATED LEVELS OF ANGIOTENSIN-CONVERTING ENZYME IN *PNEUMOCYSTIS CARINII* PNEUMONIA
Frank Singer; Wilfredo Talavera; Barnett Zumoff, New York
807 INFLUENZA A PNEUMONITIS IN A PATIENT INFECTED WITH THE HUMAN IMMUNODEFICIENCY VIRUS (HIV)
Joseph R. Thurn; Keith Henry, St. Paul and Minneapolis
811 HELPER INDUCER T CELLS IN THE LUNGS OF SARCOIDOSIS PATIENTS; ANALYSIS OF THEIR PATHOGENIC AND CLINICAL SIGNIFICANCE
Roberto Gerli; Samir Darwish; Luciana Broccucci; Fabrizio Spinozzi; Pietro Rambotti, Perugia, Italy
817 THE CARDIOPULMONARY RESPONSE TO OKT3 IN ORTHOTOPIC CARDIAC TRANSPLANT RECIPIENTS
Keith L. Stein; Joseph Ladowski; Robert Kormos; John Armitage, Pittsburgh
822 HOMOGENEITY OF BRONCHOPULMONARY DISTRIBUTION OF ^{99m}Tc AEROSOL IN NORMAL SUBJECTS AND IN CYSTIC FIBROSIS PATIENTS
Beth L. Laube; Jonathan M. Links; Norman D. LaFrance; Henry N. Wagner, Jr; Beryl J. Rosenstein, Baltimore
831 PULMONARY DISEASE ASSOCIATED WITH PLEURAL "ASBESTOS" PLAQUES
Rebecca F. Sison; Ralph H. Hruban; G. William Moore; Janet E. Kuhlman; Paul S. Wheeler; Grover M. Hutchins, Baltimore
836 ROUNDED ATELECTASIS; CLINICAL EXPERIENCE WITH 74 PATIENTS
Gunnar Hillerdal, Uppsala, Sweden
842 CARBORUNDUM PNEUMONONIOSIS; FIBERS IN THE MINERAL ACTIVATE MACROPHAGES TO PRODUCE FIBROBLAST GROWTH FACTORS AND SUSTAIN THE CHRONIC INFLAMMATORY DISEASE
Raymond Bégin; André Dufresne; André Cantin; Serge Massé; Patrick Sébastien; Guy Perrault, Montreal, Canada
850 PREOPERATIVE AND POSTOPERATIVE ABNORMALITIES IN CHEST X-RAY FILM INDICES AND IN LUNG FUNCTION IN PECTUS DEFORMITIES
Luc Derveaux; Ignace Clarysse; Ignace Ivanoff; Maurits Demedts, Leuven, Belgium
857 A NEW PENDANT OXYGEN-CONSERVING CANNULA WHICH ALLOWS PURSED LIPS BREATHING
Brian L. Tiep, Pomona; Mary Burns; Jackie Hererra, Torrance, California
861 THE INHALED BRONCHODILATORS IPRATROPIUM BROMIDE AND METAPROTERENOL IN ADULTS WITH CF
Steven J. Weintraub; William L. Eschenbacher, Ann Arbor
865 NONINVASIVE FACE MASK VENTILATION IN PATIENTS WITH ACUTE RESPIRATORY FAILURE
Gianfranco Umberto Meduri; Craig C. Conoscenti; Phillip Menashe; Sreedhar Nair, Norwalk, Connecticut
871 HEPATIC DYSFUNCTION IN THE ADULT RESPIRATORY DISTRESS SYNDROME
Douglas B. Schwartz; Roger C. Bone; Robert A. Balk; J. Peter Szidon, Chicago
876 JET FLOW-REGULATED EXPIRATORY RESISTANCE TO MAINTAIN CONSTANT CPAP DURING THE ENTIRE RESPIRATORY PHASE
Masaji Nishimura; Jun Takezawa; Hideaki Imanaka; Nobuyuki Taenaka; Ikuto Yoshiya, Nagoya, Japan
881 ACUTE RESPIRATORY FAILURE SECONDARY TO *PNEUMOCYSTIS CARINII* PNEUMONIA IN THE ACQUIRED IMMUNODEFICIENCY SYNDROME; A POTENTIAL ROLE FOR SYSTEMIC CORTICOSTEROIDS
Julio S. G. Montaner; James A. Russell; Lindsay Lawson; John Ruedy, Vancouver, Canada
885 SELECTED LEFT ENDOBRONCHIAL SUCTIONING IN THE INTUBATED PATIENT
Edward A. Panacek; Timothy E. Albertson; William F. Rutherford; Charles J. Fisher; Garrett F. Foulke
888 THE ASSESSMENT AND MANAGEMENT OF

ACUTE LIFE-THREATENING ASTHMA
J. Mark FitzGerald; Fred E. Hargreave, Hamilton, Canada
895 NEW EXERCISE PARAMETER FOR THE IDENTIFICATION OF SEVERE CORONARY ARTERY DISEASE
John R. Nelson; Prakash C. Deedwania, San Francisco
899 EXERTIONAL DYSPNEA AND A WIDENED MEDIASTINUM
Steven M. Krawtz; Peter O'Donovan; Herbert P. Wiedemann, Cleveland
901 COMPUTED TOMOGRAPHY OF THE PULMONARY PARENCHYMA; AN OVERVIEW
Elias Zerhouni, Baltimore
908 AN EARLOBE LESION WITH A LUNG NODULE
Louis L. Cregler; Michael Landor, New York
910 TRANSIENT PULMONARY PERFUSION SCINTIGRAPHIC ABNORMALITIES IN PULMONARY AIR EMBOLISM
Curtis N. Sessler; Pamela E. Kiser; Vasu Raval, Richmond, Virginia
912 INTRA-ATRIAL SMOKE-LIKE ECHOES AND THROMBI FORMATION
B. L. Chia; Maurice H. Choo; Peter C. Yan; Bernard K. Ee; Chuen-Neng Lee; Joseph H. Shears, Singapore
914 CHRONIC CAVITARY HISTOPLASMOSIS; FAILURE OF ORAL TREATMENT WITH KETOCONAZOLE
Carlos A. Quinones; Allen G. Reuben; Richard J. Hamill; Daniel M. Musher; Arnold B. Gorin; George A. Sarosi, Houston
916 Nd-YAG LASER-INDUCED ENDOBRONCHIAL BURN
Steve Krawtz; Atul C. Mehta; Herbert P. Wiedemann; Glenn DeBoer; Kenneth D. Schoepf; Marian Z. Tomaszewski, Cleveland
918 FAILURE OF CORTICOSTEROID THERAPY TO PREVENT INDUCTION OF VENTRICULAR TACHYCARDIA IN SARCOIDOSIS
Bernard Belhassen; Amos Pines; Shlomo Laniado, Tel-Aviv, Israel
921 CHRONIC COUGH AS THE PRESENTING SYMPTOM OF OCULOPHARYNGEAL MUSCULAR DYSTROPHY
Richard A. Buckler; Melvin R. Pratter; David A. Chad; Thomas W. Smith, Worcester, Massachusetts
922 BLUNT CHEST TRAUMA; EXTRAPERICARDIAL CARDIAC TAMPONADE BY A MEDIASTINAL HEMATOMA
Gary M. Coleman; Ronald Fischer; Francisco Fuentes, Houston
924 ARDS ASSOCIATED WITH BOUTONNEUSE FEVER
Angel Lopez Rodriguez; Vicente Jerez; Ana Garcia Lombardo; Jesus Rebollo; Jose A. Julia, Badajoz, Spain
925 PROLONGATION OF VENTRICULAR DEPOLARIZATION; ECG MANIFESTATION OF MEXILETINE TOXICITY
Matthew O. Nora; Kirshnaswamy Chandrasekaran; Stephen C. Hammill; Guy S. Reeder, Rochester, Minnesota
928 BREAKAGE AND DETACHMENT OF AN ABRAMS NEEDLE IN THE PLEURAL CAVITY DURING PERFORMANCE OF A PLEURAL BIOPSY
Enriqueta Fité; Lluis Force; Francesc Casarramona; Albert Verdaguer, Barcelona, Spain
930 GIANT RIGHT ATRIAL THROMBUS IN NOONAN SYNDROME COMBINED WITH EISENMENGER'S COMPLEX
Hirotaka Tatsukawa; Yasushi Okajima; Keizo Furukawa; Hiroshi Katsume; Kenji Miyao; Masao Nakagawa, Kyoto, Japan
932 LONG-STANDING INDOLENT BLASTOMYCOSIS AT INTERNAL OPENING OF TRACHEOSTOMY
Adrian J. Christie; Philip M. Binns; Kenneth R. Kredo, Warren, Michigan
933 BILATERAL EXTRAPLEURAL EFFUSIONS COMPLICATING BILATERAL PNEUMONIA
Robert M. Bogin; John Simon; Dennis L. Buschman, Denver
936 IATROGENIC OR PATIENT-INDUCED?
Dov Weissberg, Holon, Israel
936 CORONARY ARTERY DISSECTION FOLLOWING tPA ADMINISTRATION
Gary Bergeron, Palm Springs
936 BALLOONS
Francis Robicsek, Charlotte, North Carolina
937 PA CATHETER MEASURES IN LUNG INJURY
Neil G. Feinglass, Jacksonville, Florida
Response—Francine Schrijen, Vandoeuvre-les-Nancy, France
937 REACTION AFTER RE-EXPOSURE TO TRIMETHOPRIM-SULFAMETHOXAZOLE
David R. Ulstad; Neil M. Ampel; Brian Y. Shon; John N. Galgiani; Ann B. Cutcher, Tucson
938 THE CHALLENGE OF BILATERAL BRONCHOPLEURAL FISTULA
Natan Weksler; Leon Ovadia, Hadera, Israel
939 SPUTUM RETENTION
Peter Stangel, Pomona, New York
939 LONG-TERM ANTIARRHYTHMIA THERAPY
Blair P. Grubb, Toledo, Ohio
940 THE JACKKNIFE TECHNIQUE IN STATISTICAL ANALYSIS
Allen Rothpearl, New York
940 DIMINISHED TRANSLUCENCY, A COMMON ROENTGENOGRAPHIC FEATURE OF TROPICAL PULMONARY EOSINOPHILIA
K. Satish Chandra; Sundaresh Peri; Lakshmana Moorthy; Birbhadra Rao, Warangal, India

NUMBER 5, MAY, 1989

941 MYOCARDIAL DYSFUNCTION IN SEPSIS; RECENT INSIGHTS
Robert E. Cunnion; Joseph E. Parrillo, Bethesda
945 THE SUN SHOULD NEVER SET ON A PARAPNEUMONIC EFFUSION
Steven A. Sahn, Charleston, South Carolina; Richard W. Light, Long Beach, California
947 ATRIAL NATRIURETIC FACTOR
Mac E. Hadley, Tucson
948 COMPARISON OF RESPONSES TO METHACHOLINE AND COLD AIR IN PATIENTS SUSPECTED OF HAVING ASTHMA
Robert B. Filuk; Carl Serrette; Nicholas R. Anthonisen, Winnipeg, Canada
953 HISTOCHEMICAL EVALUATION OF LUNG COLLAGEN CONTENT IN ACUTE AND CHRONIC INTERSTITIAL DISEASES
Paulo Hilário Nascimento Saldiva; Vera Capelozzi Delmonte; Carolos Robefto Ribeiro de Carvalho; Ronaldo Adib Kairalla; Joše Otávio Costa Auler Jr, Sao Paulo, Brazil
958 COMPARISON OF ULTRASONICALLY NEBULIZED DISTILLED WATER AND COLD-AIR HYPERVENTILATION CHALLENGES IN ASTHMATIC PATIENTS
T. Shull Lemire; Russell J. Hopp; Againdra K. Bewtra; Nicki M. Nair; Robert G. Townley, Omaha
962 ARTERIAL OXYGEN DESATURATION DURING SLEEP IN INTERSTITIAL PULMONARY DISEASE
Koichiro Tatsumi; Hiroshi Kumra; Fumio Kunitomo; Takayuki Kuriyama; Yoshiyuki Honda, Chiba, Japan
968 MINIMAL RESECTION FOR BRONCHOGENIC CARCINOMA; SHOULD THIS BE STANDARD THERAPY?
Mark M. Crabbe; G. A. Patrissi; Larry J. Fontenelle, Biloxi
972 SURGICAL TREATMENT OF PRIMARY LUNG CANCER AND SOLITARY INTRACRANIAL METASTASIS
Frank P. Catinella; C. Frederick Kittle; L. Penfield Faber; Frank J. Milloy; William H. Warren; Kelvin A. Von Roenn, Chicago
976 RECURRENT PULMONARY EMBOLISM; A PROSPECTIVE STUDY
Manuel Monreal; Juan Ruiz; Rafael Salvador; Jose Morera; Antonio Arias, Barcelona, Spain
980 SENSITIVITY AND SPECIFICITY OF ELECTROCARDIOGRAPHIC ST-T CHANGES AS MARKERS OF NEOPLASTIC MYOCARDIAL INFILTRATION; ECHOCARDIOGRAPHIC CORRELATION
Chiara Lestuzzi; Gian Luigi Nicolosi; Salvatore Biasi; Patrizia Piotti; Domenico Zanuttini, Milan, Italy
986 DO HEMODYNAMIC RESPONSES TO THE VALSALVA MANEUVER REFLECT MYOCARDIAL DYSFUNCTION?
Luciano Bernardi; Riccardo Saviolo; David H. Spodick, Worcester, Massachusetts
992 ETHNIC DIFFERENCES IN THE PREVALENCE OF PULMONARY AIRFLOW OBSTRUCTION AMONG GRAIN WORKERS
Sandra L. Horne; Teresa To; Donald W. Cockcroft, Saskatoon, Canada
997 SMOKING AND COTTON DUST EFFECTS ON COTTON TEXTILE WORKERS
E. Neil Schachter; Mary C. Kapp; Gerald J. Beck; Lucinda R. Maunder; Theodore J. Witeck
1004 SYNERGISTIC EFFECT OF PASSIVE SMOKING AND ARTIFICIAL FEEDING ON HOSPITALIZATION FOR RESPIRATORY ILLNESS IN EARLY CHILDHOOD
Yue Chen, Shanghai, People's Republic of China
1008 THE MICRO-TRACH; A SEVEN-YEAR EXPERIENCE WITH TRANSTRACHEAL OXYGEN THERAPY
Henry J. Heimlich; Gerson C. Carr, Cincinnati
1013 STANDARD AND DOUBLE DOSE IPRATROPIUM BROMIDE AND COMBINED IPRATROPIUM BROMIDE AND INHALED METAPROTERENOL IN COPD
Edward J. LeDoux; James F. Morris; William P. Temple; Carol Duncan, Portland, Oregon
1017 AEROSOLIZED METAPROTERENOL IN THE TREATMENT OF ASTHMATICS WITH SEVERE AIRFLOW OBSTRUCTION
Gary A. Salzman; Mark T. Steele; John P. Pribble; Robert M. Elenbaas; Dennis R. Pyszczynski, Kansas City, Missouri
1021 NEUTROPHIL CHEMOTACTIC FACTORS IN BACTERIAL PNEUMONIA
Harvey Hopkins; Todd Stull; Susanna G. Von Essen; Richard A. Robbins; Stephen I. Rennard, Omaha
1028 THEOPHYLLINE DISPOSITION IN PATIENTS WITH COLD WITH AND WITHOUT HYPOXEMIA
Patrick du Souich; Bruno Hoen; Claude Saunier; Denise Hartemann; Armelle Sautegeau; André Carnette; Nicolas Delorme; Jean-Marie Polu; Paul Sadoul
1033 BRONCHOSCOPY IN THE DIAGNOSIS OF PULMONARY HISTOPLASMOSIS
Gary C. Prechter; Udaya B. S. Prakash, Rochester, Minnesota
1037 TRANSMITRAL FLOW CHANGES DURING DIPYRIDAMOLE-INDUCED ISCHEMIA; A DOPPLER-ECHOCARDIOGRAPHIC STUDY
Fabio Lattanzi; Eugenio Picano; Michele Masini; Francesco De Prisco; Alessandro Distante; Antonio L'Abbate, Pisa, Italy
1043 BRONCHOSCOPY TO EVALUATE HEMOPTYSIS IN OLDER MEN WITH NONSUSPICIOUS CHEST ROENTGENOGRAMS
Frank A. Lederle; Kristin L. Nichol; Connie M. Parenti, Minneapolis
1048 DIAGNOSIS AND CHARACTERISTICS OF LONE ATRIAL FIBRILLATION
Ehud Davidson; Zvi Rotenberg; Itzhak Weinberger; Jacob Fuchs; Jacob Agmon, Tel Aviv, Israel
1051 COMBINATION OF OFLOXACIN AND AMIKACIN IN THE TREATMENT OF STERNOTOMY WOUND INFECTION
Wing Wai Yew; Susan Yuk Lin Kwan; Wing Keung Ma; Maung Aung-khin; Che Keung Mok, Hong Kong
1056 SUPERIORITY OF ENVIOMYCIN OR STREPTOMYCIN OVER ETHAMBUTOL IN INITIAL TREATMENT OF LUNG DISEASE CAUSED BY *MYCOBACTERIUM AVIUM* COMPLEX
Michio Tsukamura; Satoshi Ichiyama; Takuaya Miyachi, Obu, Japan
1059 USE OF SEGMENTAL AIRWAY LAVAGE TO OBTAIN RELEVANT MEDIATORS FROM THE LUNGS OF ASTHMATIC AND CONTROL SUBJECTS
Brian B. Zehr; Thomas B. Casale; D. Wood; Connie Floerchinger; H. B. Richerson; Gary W. Hunninghake, Iowa City
1064 OBSTRUCTIVE SLEEP APNEA LEADING TO INCREASED INTRACRANIAL PRESSURE IN A PATIENT WITH HYDROCEPHALUS AND SYRINGOMYELIA
Hans Pasterkamp; Erico R. Cardoso; Frances A. Booth, Winnipeg, Canada
1068 MIDAZOLAM AS INTRAVENOUS SEDATIVE FOR ELECTROCARDIOVERSION

Abdul Hakim Khan; Rahul Malhotra, Providence, Rhode Island

1072 A CIRCULATING MYOCARDIAL DEPRESSANT SUBSTANCE IS ASSOCIATED WITH CARDIAC DYSFUNCTION AND PERIPHERAL HYPOPERFUSION (LACTIC ACIDEMIA) IN PATIENTS WITH SEPTIC SHOCK
Joseph M. Reilly; Robert E. Cunnion; Cynthia Burch-Whitman; Margaret M. Parker; James H. Shelhamer; Joseph E. Parrillo, Bethesda

1081 PRESSURE CONTROL INVERSE RATIO VENTILATION AS A METHOD TO REDUCE PEAK INSPIRATORY PRESSURE AND PROVIDE ADEQUATE VENTILATION AND OXYGENATION
David C. Lain; Robert DiBenedetto; Stephen L. Morris; An Van Nguyen; Robert Saulters; Don Causey, Savannah

1089 EVIDENCE OF PROLONGED MYOCARDIAL DYSFUNCTION IN HEAT STROKE
Doron Zahger; Allon Moses; Avraham T. Weiss, Jerusalem, Israel

1092 MECHANISM OF BLOOD FLOW GENERATED BY PRECORDIAL COMPRESSION DURING CPR
Hanumant G. Deshmukh; Max Harry Weil; Chalipathirao V. Gudipati; Robert P. Trevino; Jose Bisera; Eric C. Rackow, North Chicago, Illinois

1100 BEYOND FEAR; RESOLVING ETHICAL DILEMMAS REGARDING HIV INFECTION
Carol M. Mangione; Bernard Lo, San Francisco

1107 ATRIAL NATRIURETIC FACTOR IN THE PLEURAL FLUID OF CONGESTIVE HEART FAILURE PATIENTS
David L. Vesely; Chris J. Winters; Alan L. Sallman, Little Rock

1110 ASTHMA SELF-MANAGEMENT EDUCATION; RESEARCH AND COMPLICATIONS FOR CLINICAL PRACTICE
Noreen M. Clark, Ann Arbor

1114 MULTIPLE ORGAN DAMAGE CAUSED BY TUMOR NECROSIS FACTOR AND PREVENTED BY PRIOR NEUTROPHIL DEPLETION
Anjum A. Mallick; Akitoshi Ishizaka; Kenton E. Stephens; John R. Hatherill; Henry D. Tazelaar; Thomas A. Raffin, Stanford, California

1121 CHEST MASS IN A PARAPLEGIC
C. Michael Hart; Forrest C. Clore; C. Ian Hood, Gainesville, Florida

1123 BILATERAL CAROTID BODY RESECTION FOR THE RELIEF OF DYSPNEA IN SEVERE CHRONIC OBSTRUCTIVE PULMONARY DISEASE
Michael S. Stulbarg; William R. Winn, San Francisco and Visalia, California

1128 CAROTID BODY RESECTION FOR COPD?
John W. Severinghaus, San Francisco

1130 TRANSBRONCHIAL BIOPSY AND NEEDLE ASPIRATION
Deborah Shure, San Diego

1139 HOARSENESS SECONDARY TO LEFT ATRIAL MYXOMA
Fraser Rubens; William Goldstein; Nancy Hickey; Carole Dennie; Wilbert Keon, Ottawa, Canada

1141 MASSIVE EPISTAXIS FROM NASAL CPAP THERAPY
David A. Strumpf; Pamela Harrop; James Dobbin; Richard P. Millman, Newport, Rhode Island

1142 DIAGNOSTIC USEFULNESS OF PERICARDIAL FLUID CYTOLOGY
David G. Meyers; David J. Bouska, Omaha

1143 MASSIVE HEMOPTYSIS DURING CATHETERIZATION OF THE INTERNAL JUGULAR VEIN
Yaakov Friedman; Elena Tilly; Eric C. Rackow; Max Harry Weil, North Chicago, Illinois

1144 KISSING BALLOON ANGIOPLASTY OF A CIRCUMFLEX ARTERY BIFURCATION LESION
Karel van Leeuwen; Walter Blans; Nico H. J. Pijls; Tjeerd van der Werf, Nigmegen, The Netherlands

1146 LEFT UPPER LOBE TORSION FOLLOWING LOWER LOBE RESECTION
Vincent A. Kucich; Jorge R. Villarreal; Douglas B. Schwartz, Chicago

1147 THE ETIOLOGY OF TUMOR PLOP IN A PATIENT WITH HUGE RIGHT ATRIAL MYXOMA
Andre Keren; Adrian Chenzbruna; Lucia Schuger; Eliahu Milgarter; Dan Tzivoni, Jerusalem, Israel

1149 HYPERSENSITIVITY PNEUMONITIS DUE TO MUSHROOM (PHOLIOTA NAMEKO) SPORES
Tsugio Nakazawa; Takao Tochigi, Gunma, Japan

1151 FIBERBRONCHOSCOPY IN SMEAR-NEGATIVE MILIARY TUBERCULOSIS
Kaushal Pant; Rajesh Chawla; P. S. Mann; O. P. Jaggi, Delhi, India

1153 POSTINFLUENZA TOXIC SHOCK SYNDROME
Gary C. Prechter; Albrecht K. Gerhard, Colorado Springs, Colorado

1154 PROLONGED SURVIVAL IN PULMONARY VENO-OCCLUSIVE DISEASE TREATED WITH NIFEDIPINE
Gary A. Salzman; Ute W. Rosa, Kansas City, Missouri

1156 ASPERGILLOMA IN AN OPEN CHEST CAVITY
Dwayne A. Thomas; Ricardo J. Gonzalez-Rothi, Gainesville, Florida

1158 PULMONARY PHAEOHYPHOMYCOSIS IN A PATIENT WITH HEMOPTYSIS
Joan Barenfanger; Francisco Ramirez; Ram P. Tewari; Lanie Eagleton, Carbondale, Illinois

1160 CORTICOSTEROID-INDUCED MYOPATHY AND THE RESPIRATORY MUSCLES
Stefan Janssens; Marc Decramer, Leuven, Belgium

1162 *DE NOVO* CIRCUMSCRIBED PULMONARY LOBAR CYSTIC LYMPHATIC ANOMALY IN A YOUNG BOY
Nelly Karmazin; Howard B. Panitch; Rohinton K. Balsara; Eric N. Faerber; Jean-Pierre de Chadarevian, Philadephia

1164 ENDOBRONCHIAL TUBERCULOSIS SIMULATING FOREIGN BODY ASPIRATION
Suat Caglayan; Isin Coteli; Ummuhan Acar; Salim Erkin, Izmir, Turkey

1165 ROENTGENOGRAPHIC UNDERESTIMATION OF EARLY ASBESTOSIS
Alan M. Ducatman, Cambridge, Massachusetts. Additional commentary: Michael L. Cohen, Davis, California, Arnold C. Friedman; Stanley B. Fiel, Philadelphia, G. K. Sluis-Cremer; Eva Hnizdo, Johannesburg, South Africa
Response—S. David Rockoff; Arnold Schwartz, Washington, DC

1170 NO MORE ALPHABET SOUP!
Dean Schraufnagel, Chicago

1170 REEXPANSION PULMONARY EDEMA LOCALIZED TO A LOBE
T. K. Vuong; C. Dautheribes; J. Robert; J. P. Laaban, Paris, France

1170 PRESSURE-SUPPORTED BREATHING
William W. Quinn, Oxford, MS

1171 IS CT USEFUL IN THE UNEQUIVOCAL DIAGNOSIS OF HYDATID CYST ON A CHEST X-RAY FILM?
Shashi Aggarwal; Alka Kumar, New Delhi, India

1172 CONSTRICTIVE PERICARDITIS
Alan R. Pope; Joseph W. Sokolowski Jr; Irwin Spirn, Camden, New Jersey

1172 THE OLYMPUS BF-IT20 FIBEROPTIC BRONCHOSCOPE AND A FLEXIBLE 18 GAUGE TRANSBRONCHIAL ASPIRATION NEEDLE
Patricia Curtis; Atul C. Mehta; Mani S. Kavuru, Cleveland

NUMBER 5, MAY, 1989 Supplement

243S TISSUE PLASMINOGEN ACTIVATOR IN CARDIOPULMONARY DISEASE
Samuel Z. Goldhaber, Boston

245S ANTICOAGULATION AND THROMBOLYTIC THERAPY; PRACTICAL CONSIDERATIONS
Craig M. Kessler, Washington, D.C.

257S THROMBOLYTIC THERAPY FOR ACUTE MYOCARDIAL INFARCTION
Eric R. Bates, Eric J. Topol, Ann Arbor

265S COMPARISON OF TISSUE PLASMINOGEN ACTIVATOR AND STREPTOKINASE IN THE MANAGEMENT OF ACUTE MYOCARDIAL INFARCTION
Harvey D. White, Auckland, New Zealand

270S THROMBOLYSIS WITH TISSUE PLASMINOGEN ACTIVATOR IN SUSPECTED ACUTE MYOCARDIAL INFARCTION; THE ASSET STUDY
Robert G. Wilcox, for the ASSET Study Group, Notthingham, England

276S HOW TO SELECT PATIENTS WITH DEEP VEIN THROMBOSIS FOR TPA THERAPY
Wayne D. Brown, Samuel Z. Goldhaber, Boston

279S SELECTION OF PATIENTS WITH ACUTE PULMONARY EMBOLISM FOR THROMBOLYTIC THERAPY; THROMBOLYSIS IN PULMONARY EMBOLISM (TIPE) PATIENT SURVEY
Michael Terrin; Samuel Z. Goldhaber; Bruce Thompson; and the TIPE Investigators

282S TISSUE PLASMINOGEN ACTIVATOR IN ACUTE PULMONARY EMBOLISM
Samuel Z. Goldhaber, Boston

290S HOW TO GIVE THROMBOLYTIC THERAPY SAFELY
Barbara Conway Donovan, Boston

NUMBER 6, JUNE, 1989

1173 IS IT ETHICAL TO ADMINISTER VASODILATOR DRUGS TO PATIENTS WITH PRIMARY PULMONARY HYPERTENSION?
Milton Packer, New York

1175 NEW MODES OF MECHANICAL VENTILATION FOR ARDS; HOW SHOULD THEY BE EVALUATED?
Michael A. Matthay, San Francisco

1177 IS LEVOPHED LETHAL?
Mali Mathru; David J. Dries, Maywood, Illinois

1178 ROENTGENOLOGIC DIAGNOSIS OF EMPHYSEMA; ACCURATE OR NOT?
N. K. Burki, Lexington, Kentucky

1180 SERIOUS INFECTIOUS COMPLICATIONS OF CORTICOSTEROID THERAPY FOR COPD
Peter M. Wiest; Timothy Flanigan; Robert A. Salata; David M. Shlaes; Michael Katzman; Michael M. Lederman, Cleveland

1185 VASODILATORS AND PRIMARY PULMONARY HYPERTENSION; VARIABILITY OF LONG-TERM RESPONSE
David R. Dantzker; Gilbert E. D'Alonzo; Leslie Gianotti; Francisco Fuentes; David Nickeson; Marcia Emerson, Houston

1190 USE OF MYCOBACTERIAL SMEARS IN THE DIAGNOSIS OF PULMONARY TUBERCULOSIS IN AIDS/ARC PATIENTS
Natalie C. Klein; Frederick P. Duncanson; Theodore H. Lenox III; Africa Pitta; Steven C. Cohen; Gary P. Wormser, New York

1193 A REEVALUATION OF SPUTUM MICROSCOPY AND CULTURE IN THE DIAGNOSIS OF PULMONARY TUBERCULOSIS
Howard Levy; Charles Feldman; Howard Sacho; Hermina van der Meulen; Jeremy Kallenbach; Hendrik Koornhof, Johannesburg, South Africa

1198 BRONCHOALVEOLAR LAVAGE EOSINOPHILIA ASSOCIATED WITH *PNEUMOCYSTIS CARINII* PNEUMONITIS IN AIDS PATIENTS; COMPARATIVE STUDY WITH NON-AIDS PATIENTS
Jocelyne Fleury-Feith; Jeanne Tran Van Nhieu; Catherine Picard; Estelle Escudier; Jean-Francois Bernaudin, Creteil, France

1202 PREDICTORS OF OBJECTIVE LEVEL OF DAYTIME SLEEPINESS IN PATIENTS WITH SLEEP-RELATED BREATHING DISORDERS
Timothy Roehrs; Frank Zorick; Robert Wittig; William Conway; Thomas Roth, Detroit

1207 EFFECT OF INTENTIONAL HEMODILUTION ON PLATELET SURVIVAL IN SECONDARY PULMONARY HYPERTENSION
Antonio A. B. Lopes; Nair Y. Maeda; Munir Ebaid; Daltom F. Chamone; Fulvio Pileggi, Sao Paulo, Brazil

1211 ACUTE ANTERIOR WALL MYOCARDIAL INFARCTION PRESENTING WITH POSITIVE T WAVES AND WITHOUT ST SEGMENT SHIFT
Alex Sagie; Samuel Sclarovsky; Boris Strasberg; Oscar Kracoff; Eldad Rechavia; Roni Bassevich; Jacob Agmon, Petah Tikva, Israel

1216 COMPARISON OF CENTRAL-VENOUS TO MIXED-VENOUS OXYGEN SATURATION DURING CHANGES IN OXYGEN SUPPLY/DEMAND
Konrad Reinhart; Tobias Rudolph; Donald L. Bredle; Lutz Hannemann; Stephen M. Cain

1222 EFFECTIVENESS OF OPEN-CIRCUIT AND OXYHOOD DELIVERY OF HELIUM-OXYGEN
Paul C. Stillwell; James D. Quick; Patricia R. Munro; George B. Mallory, Jr

1225 INCREASED BRONCHIAL REACTIVITY AND POTENTIATED SKIN RESPONSES IN HYPERTEN-

SIVE SUBJECTS SUFFERING FROM COUGHS DURING ACE-INHIBITOR THERAPY
Björn R. Lindgren; Ulf Rosenqvist; Tommy Ekström; Reidar Grönnenberg; Bengt E. Karlberg; Rolf G. G. Andersson, Sweden

1231 EFFECT OF AZELASTINE, AN ANTIASTHMATIC DRUG, ON BRONCHIAL RESPONSIVENESS IN PATIENTS WITH BRONCHIAL ASTHMA
Masaru Owata; Masao Tano; Satoru Sugiyama; Fumio Taki; Tatsuo Satake, Aichi, Japan

1235 EFFECT OF LONG-TERM TREATMENT WITH SODIUM CROMOGLYCATE ON NONSPECIFIC BRONCHIAL HYPERRESPONSIVENESS IN ASTHMA
Sunil K. Chhabra; Shailendra N. Gaur, Delhi, India

1239 INTRASUBJECT BETWEEN-DAY VARIABILITY OF PD_{35} METHACHOLINE ASSESSED BY THE DOSIMETER INHALATION TEST
Giovanni Balzano; Ida Delli Carri; Ciro Gallo; Giulio Cocco; Gaetano Melillo, Naples, Italy

1244 PREVALENCE OF CHRONIC BRONCHITIS AND RESPIRATORY FUNCTION IN A GROUP OF DAIRY FARMERS IN THE FRENCH DOUBS PROVINCE
Jean-Charles Dalphin; François Bildstein; Didier Pernet; André Dubiez; Alain Depierre, Besançon, France

1248 EFFECTS OF ORAL TERBUTALINE IN CHRONIC AIRFLOW LIMITATION
Niels Maltbaek; P. Garsdal; H. Christensen; H. Bro; F. V. Rasmussen. Copenhagen, Denmark

1253 CLINICAL PHARMACOKINETICS OF THEOPHYLLINE AND LEVELS OF ALPHA$_1$-ACID GLYCOPROTEIN IN SMOKELESS TOBACCO USERS
Roy C. Parish; Jeanne R. Terrell; Walter J. Brown Jr, Augusta, Georgia

1257 HLA AND SARCOIDOSIS IN THE JAPANESE
Yasutaka Ina; Katsutoshi Takada; Masahiko Yamamoto; Munehiko Morishita; Yoshihiro Senda; Yoshio Torii, Nagoya, Japan

1262 ROENTGENOGRAPHIC EVIDENCE FOR PREDOMINANT LEFT-SIDED LOCATION OF UNILATERAL PLEURAL PLAQUES
Benjamin F. Withers; Alan M. Ducatman; William N. Yang

1265 AIRWAY SECRETORY IgA CONCENTRATIONS IN PATIENTS WITH LUNG CANCER; EVALUATION OF THE UNINVOLVED LUNG
Lewis J. Wesselius; Diana S. Dark; Frederick N. Hanson; David L. Wheaton

1269 INFLUENCE OF AGE, SEX, AND OBESITY ON BLOOD PRESSURE OF HUTTERITES IN SOUTH DAKOTA
Evelyn H. Schlenker; Rodney R. Parry; Michael J. McMillin, Vermillion and Sioux Falls, SD

1274 TWO CASES OF MYOCARDIAL INFARCTION IN TYPE 4 EHLERS-DANLOS SYNDROME
Takanari Kitazono; Tsuotomu Imaizumi; Shuhei Imayama; Hiroshi Shinkai; Akira Takeshita; Motoomi Nakamura, Fukuoka and Ohita, Japan

1278 HEMODYNAMIC AND GAS EXCHANGE ALTERATIONS DURING INTRALIPID INFUSION IN PATIENTS WITH ADULT RESPIRATORY DISTRESS SYNDROME
Bahman Venus; Robert A. Smith; Chandrakant Patel; Edmundo Sandoval, Jacksonville, Florida

1282 EFFECT OF DOPAMINE VS NOREPINEPHRINE ON HEMODYNAMICS IN SEPTIC SHOCK; EMPHASIS ON RIGHT VENTRICULAR PERFORMANCE
Willem O. Schreuder; Anton J. Schneider; A. B. Johan Groenveld; Lambertus G. Thijs, Amsterdam, The Netherlands

1289 RELATIONSHIP BETWEEN MIXED VENOUS OXYGEN SATURATION AND CARDIAC INDEX IN PATIENTS WITH CHRONIC CONGESTIVE HEART FAILURE
Christian Richard; Christian Thuillez; Michel Pezzano; Gilles Bottineau; Jean Francois Giudicelli; Philippe Auzepy, Le Kremlin-Bicetre, France

1295 PHARMACOKINETICS OF A 3 MG/KG BODY WEIGHT LOADING DOSE OF GENTAMICIN OR TOBRAMYCIN IN CRITICALLY ILL PATIENTS
L. Chelluri; Jonathan Warren; Michael S. Jastremski, Syracuse

1298 PSYCHOLOGICAL DEFENSES AND COPING STYLES IN PATIENTS FOLLOWING A LIFE-THREATENING ATTACK OF ASTHMA
Peter M. Yellowlees; R. E. Ruffin, Bedford Park, South Australia

1304 ASBESTOS AND THE LUNG
Marc M. Dunn, Chicago

1309 THERAPEUTIC OPTIONS IN ACUTE MYOCARDIAL INFARCTION
John T. Coppola; Emanuel M. Shaoulian; Peter Rentrop, New York

1316 TEACHING MODELS FOR Nd:YAG LASER BRONCHOSCOPY
John F. Beamis, Jr; Stanley M. Shapshay; Suzanne Setzer; Jean-Francois Dumon

1319 CONTROVERSIES IN THE MANAGEMENT OF PULMONARY DISEASE DUE TO CYSTIC FIBROSIS
Robert B. Fick, Jr, Iowa City; Paul C. Stillwell, Phoenix

1328 ROLES OF MAST CELL PROTEASES IN AIRWAYS
Jay A. Nadel; George H. Caughey, San Francisco

1331 A PYRRHIC VICTORY IN SMALL CELL LUNG CANCER
G. H. Russchen; A. J. Limburg; P. E. Postmus, Groningen, the Netherlands

1333 THE CARDIOPULMONARY AND RENAL HEMODYNAMIC EFFECTS OF NOREPINEPHRINE IN CANINE PULMONARY EMBOLISM
Mark R. Angle; David W. Molloy; Brian Penner; Don Jones; Richard M. Prewitt, Winnipeg, Canada

1338 ASPERGILLUS PANCARDITIS FOLLOWING BONE MARROW TRANSPLANTATION FOR CHRONIC MYELOGENOUS LEUKEMIA
David A. Schwartz, Philadelphia

1340 MANAGEMENT OF MASSIVE HEMOPTYSIS SECONDARY TO CATHETER-INDUCED PERFORATION OF THE PULMONARY ARTERY DURING CARDIOPULMONARY BYPASS
Arlen G. Fleisher; G. Frank O. Tyers; Glen T. Manning; Bill Nelems, Vancouver, Canada

1342 DIFFUSE PANBRONCHIOLITIS PRECEDING ULCERATIVE COLITIS
Shivraj J. Desai; Gordon N. Gephardt; James K. Stoller, Cleveland

1345 SEVERE BRONCHOSPASM FOLLOWED BY RESPIRATORY ARREST DURING THALLIUM-DIPYRIDAMOLE IMAGING
Jean Lette; Michel Cerino; Michel Laverdiere; Jacques Tremblay; Julis Prenovault, Montreal, Canada

1347 CHRONIC CAVITARY *PNEUMOCYSTIS CARINII* PNEUMONIA IN A PATIENT WITH AIDS
Vijay Chechani; Muhammad K. Zaman; Peter J. P. Finch, Brooklyn

1349 BRONCHIECTASIS AND PROGRESSIVE RESPIRATORY FAILURE FOLLOWING SMOKE INHALATION
A. David Slutzker; Robert Kinn; Sami I. Said, Chicago

1351 FATAL PNEUMOPERICARDIUM CAUSED BY SF_6 GAS INFUSION INTO THE PLEURAL SPACE AFTER PNEUMONECTOMY AND PERICARDIAL RESECTION
Takayuki Shirakusa, Fukuoka, Japan

1352 HEMOTHORAX AND HEMOPERICARDIUM IN A PATIENT WITH BEAN'S BLUE RUBBER BLEB NEVUS SYNDROME
David Langleben; Norman Wolkove; Herbert Srolovitz; Robin C. Billick; Nathan M. Sheiner, Montreal, Canada

1353 REINFORCEMENT OF THE ANASTOMOSIS BETWEEN THE FRAGILE ARTERIAL VESSEL AND THE PROSTHETIC GRAFT
Kiyoshi Ishii; Yasunori Koga; Kaoru Iwamoto; Toshio Onitsuka; Kouichirou Shibata, Miyazaki, Japan

1355 FATAL PERICARDITIS DUE TO *MYCOBACTERIUM AVIUM-INTRACELLULARE* IN ACQUIRED IMMUNODEFICIENCY SYNDROME
Gail L. Woods; Jonathan C. Goldsmith, Omaha

1357 PLEURAL EFFUSION IN CHURG-STRAUSS SYNDROME
Serpil C. Erzurum; Gregory A. Underwood; Daniel L. Hamilos; James A. Waldron, Denver

1359 PERICARDIAL EFFUSION AND TAMPONADE DUE TO KAPOSI'S SARCOMA IN ACQUIRED IMMUNODEFICIENCY SYNDROME
Jennifer L. Stotka; Chester B. Good; William R. Downer; Wishwa N. Kapoor, Pittsburgh

1362 HYPOMAGNESEMIA IN INTENSIVE CARE; CORRECTION OF UNITS
Bart Chernow, Boston

1362 MORTALITY IN SLEEP APNEA
Wolfgang W. Schmidt-Nowara; David B. Coultas, Albuquerque.
Response—R. J. Gonzalez-Rothi; A. Jay Block, Gainesville, Florida. Additional commentary—Meir H. Kryger; Jiang He; Thomas Roth; Frank Zorick; William Conway, Detroit.
Response—A. Jay Block; R. J. Gonzalez-Rothi, Gainesville, Florida. Additional commentary—Michael J. Thorpy, Bronx.
Response—R. J. Gonzalez-Rothi; A. Jay Block, Gainesville, Florida

1366 VIGOROUS CLEANING OF INSPIREASE RESERVOIR DEVICES
Cynthia L. French; Richard S. Irwin, Worcester, MA

1366 SEVERE REACTIVE AIRWAYS DISEASE INDUCED BY PROPAFENONE
M. Olm; P. Munne; M. J. Jimenez, Barcelona, Spain

1367 HIGH OUTPUT CONGESTIVE HEART FAILURE IN SEPTIC SHOCK
Edward B. Rotheram, Jr, Pittsburgh

1368 A. UNIQUE CASE OF CATAMENIAL PNEUMOTHORAX
Ronald C. Brown, Union, New Jersey

1369 AUTHOR INDEX (vol 95, Jan-June)

1376 SUBJECT INDEX (vol 95, Jan-June)